INDEX OF AUTHORS' NAMES.

TRANSACTIONS AND PROCEEDINGS. 1912.

(Marked T. and P. respectively.)

A.

Abell, *Robert Duncombe*, 1:3-keto-enolic ethers and derivatives of dibenzoylmethane, T., 989 ; P., 145.

derivatives of phenyl styryl ketone. Part I. The tautomeric forms of dibenzoylmethane, T., 998 ; P., 145.

Adams, *Ernest Bryan*. See *Percy Faraday* **Frankland.**

Anderson, *Duncan Geddes*. See *Thomas Stewart* **Patterson.**

Angel, *Andrea*, isomeric change of halogen-substituted diacylanilides into acylaminoketones, T., 515 ; P., 46.

Atkins, *William Ringrose Gelston*, and *Emil Alphonse* **Werner,** the dynamic isomerism of ammonium thiocyanate and thiocarbamide, T., 1167 ; P., 141.

the influence of certain salts on the dynamic isomerism of ammonium thiocyanate and thiocarbamide, T., 1982 ; P., 233.

Atkins, *William Ringrose Gelston*. See also *Thomas Arthur* **Wallace.**

Auld, *Samuel James Manson*, and *Samuel Shrowder* **Pickles,** the constituents of West Indian satinwood, T., 1052 ; P., 143.

B.

Backer, *Hilmar Johannes*, electro-reduction of alkylnitrosoamides, T., 592 ; P., 65.

Backer, *Hilmar Johannes*. See also *Antoine Paul Nicolas* **Franchimont.**

Bailey, *Clement William*, and *Hamilton* **McCombie,** the effect of heat on a mixture of benzaldehydecyanohydrin with *m*-chloroaniline and with *m*-toluidine, T., 2272 ; P., 266.

Bainbridge, *James Scott*, and *Samuel Henry* **Davies,** the essential oil of cocoa, T., 2209 ; P., 253.

Baker, *Frank*, the viscosity of ether-alcohol mixtures, T., 1409 ; P., 165.

Baker, *Herbert Brereton*, and (*Mrs.*) *Muriel* **Baker,** the change in the boiling points of the trioxide and tetroxide of nitrogen on drying, T., 2339; P., 282.

Baker, (*Mrs.*) *Muriel*. See *Herbert Brereton* **Baker.**

Balls, (*Miss*) *Kathleen*, *John Theodore* **Hewitt,** and *Sidney Herbert* **Newman,** studies in the azine series. Part II., T., 1840 ; P., 231.

Baly, *Edward Charles Cyril*, and *Rudolf* **Krulla,** a theory of fluorescence, T., 1469 ; P., 196.

Baly, *Edward Charles Cyril*, and *Francis Owen* **Rice,** chemical reactivity and absorption spectra. Part I., T., 1475 ; P., 197.

chemical reactivity and absorption spectra. Part II. The variation in absorption produced by a solvent, P., 312.

Banerjee, *Manindra Nath*, the interaction of phosphorus and potassium hydroxide solution, P., 50.

Banerjee, *Manindra Nath*, and *Satish Chandra* **Banerjee,** a method of estimating tin in its ores, alloys and compounds, P., 102.

Banerjee, *Satish Chandra*. See *Manindra Nath* **Banerjee.**

Barger, *George*, and (*Miss*) *Ellen* **Field,** blue adsorption compounds of iodine. Part I. Starch, saponarin, and cholalic acid, T., 1394 ; P., 157; discussion, P., 157.

Barker, *Thomas Vipond*, studies in chemical crystallography. Part I. Co-ordination, isomorphism, and valency, T., 2484 ; P., 253.

Barnett, *Edward de Barry*, note on the action of ethylene oxide on hydrazine hydrate, P., 259.

Barnett, *Raymond Theodore Fred.* See *Gilbert Thomas* **Morgan.**

Bassett, *Henry, jun.*, and *Hugh Stott* **Taylor,** calcium nitrate. Part I. The two-component system: calcium nitrate—water. Part II. The three-component system: calcium nitrate—nitric acid—water at 25°, T., 576; P., 48.

Batey, *John Percy.* See *Edmund* **Knecht.**

Bhaduri, *Kshitibhushan*, the glucoside and oil of *Caesalpina bonducella*, P., 53.

constituents of *Vernonia anthelmintica*. Part I., P., 53.

Bland, *Norman, William Henry* **Perkin,** *jun.*, and *Robert* **Robinson,** iso-oxyberberine, T., 262.

Bland, *Norman*, and *Jocelyn Field* **Thorpe,** the chemistry of the glutaconic acids. Part III. Glutaconic acid and its β-alkyl derivatives, T., 856; P., 49.

the chemistry of the glutaconic acids. Part IV. The esters of the glutaconic acids, T., 871; P., 56, 70.

the chemistry of the aconitic acids. Part I. The labile modification of aconitic acid and the hydroxyanhydro-acid, T., 1490; P., 195.

the chemistry of the glutaconic acids. Part V. The preparation of esters of the labile acids, T., 1557; P., 217.

the chemistry of the glutaconic acids. Part VI. Conditions which confer stability on the *trans*-forms of the labile acids, T., 1739; P., 218.

the chemistry of the aconitic acids; preliminary note, P., 131.

Bostock, *Clifford.* See *Robert Llewellyn* **Taylor.**

Bousfield, *William Robert*, the continuous fractional distillation of water, T., 1443; P., 186.

Bousfield, *William Robert*, and *Thomas Martin* **Lowry,** the density of acetic acid; a correction, P., 72.

Bowden, *Richard Charles.* See *James William* **McBain.**

Brady, *Oscar Lisle*, the constitution of aconitine; preliminary note, P., 289.

Brady, *Oscar Lisle.* See also *John Cannell* **Cain.**

Branch, *Gerald Eyre Kirkwood*, and *Arthur Walsh* **Titherley,** 2-phenyl-1:4:5:6-tetrahydropyrimidine and benzoyl-αγ-diaminopropane, T., 2342; P., 293.

Brazier, *Sidney Albert*, and *Hamilton* **McCombie,** the chlorination of iodophenols. Part I. The chlorination of *p*-iodophenol, T., 968; P., 127.

the condensation of α-keto-β-anilino-αβ-diphenylethane and its homologues with phenylcarbimide and with phenylthiocarbimide, T., 2352; P., 287.

Bredt, *Julius*, and *William Henry* **Perkin,** *jun.*, epicamphor (β-camphor); preliminary note, P., 56.

Briscoe, *Henry Vincent Aird.* See *Philip Wilfrid* **Robertson.**

Browning, *Henry, jun.* See *Frederick Belding* **Power.**

Bulle, *Fritz.* See *George* **Senter.**

C.

Cain, *John Cannell*, and *Oscar Lisle* **Brady,** studies in the diphenyl series. Part III. Diphenyldiphthalamic acids and pyronine colouring matters containing the diphenyl group, T., 2304; P., 285; discussion, P., 286.

Cain, *John Cannell, Albert* **Coulthard,** and (*Miss*) *Frances Mary Gore* **Micklethwait,** studies in the diphenyl series. Part II. The dinitrobenzidines: a new form of isomerism, T., 2298; P., 277.

Cain, *John Cannell*, and *John Lionel* **Simonsen,** researches on santalin. Part I. Santalin and its derivatives, T., 1061; P., 139.

Carr, *Francis Howard*, the oxidation of aconitine, T., 2241; P., 253; discussion, P., 254.

Carr, *Francis Howard*, and *William Colebrook* **Reynolds,** nor-hyoscyamine and nor-atropine; alkaloids occurring in various solanaceous plants, T., 946; P., 124.

Carter, *Sidney Raymond.* See *Percy Faraday* **Frankland.**

Caw, *William.* See *George Gerald* **Henderson.**

Chattaway, *Frederick Daniel*, the transformation of ammonium cyanate into carbamide, T., 170.

Chattaway, *Frederick Daniel*, and *Alan Edulf* **Swinton,** *N*-chloro-derivatives of benzylidene-diamides, T., 1206; P., 158.

Christopher, *Harold*, and *Thomas Percy* **Hilditch,** molecular rotatory power in normal homologous series. Part II. The menthyl esters of the α-bromo-aliphatic acids, T., 202.

Christopher, *Harold*, and *Samuel* **Smiles,** some reactions of β-naphthasulphonium-quinone, T., 710; P., 93.

Clarke, *Hans Thacher,* 4-alkyl-1:4-thiazans, T., 1583; P., 218.
the relation between residual affinity and chemical constitution. Part III. Some heterocyclic compounds, T., 1788; P., 220.
Clarke, (*Miss*) *Rosalind.* See *Alfred* **Senier.**
Clayton, *Arthur,* and *William* **Godden,** the thio-analogues of coumarin and its derivatives, T., 210; P., 6.
Clewer, *Hubert William Bentley.* See *Frank* **Tutin.**
Clibbens, *Douglas Arthur,* and *Francis Ernest* **Francis,** the catalytic decomposition of nitrosotriacetonamine by alkalies, T., 2358; P., 291.
Clough, *George William.* See *Alexander* **McKenzie.**
Cooper, *Charles.* See *Hubert Frank* **Coward.**
Cooper, *William Francis,* and *Walter Harold* **Nuttall,** furan-2:5-dialdehyde, T., 1074; P., 139.
Cornish, (*Miss*) *Elfreida Constance Victoria.* See *James William* **McBain.**
Coulthard, *Albert.* See *John Cannell* **Cain.**
Coward, *Hubert Frank, Charles* **Cooper,** and *Christopher Henry* **Warburton,** the ignition of electrolytic gas by the electric discharge, T., 2278; P., 268.
Crabtree, *John Ickering,* and *Arthur* **Lapworth,** the properties of α-bromonaphthalene, P., 264.
Crompton, *Holland,* the possible limit of molecular magnitude, P., 193.
Crompton, *Holland,* and (*Miss*) *Wilhelmina Rebecca* **Smythe,** the products of the oxidation of chloroacenaphthene with chromic acid, P., 194.
Crompton, *Holland,* and (*Miss*) *Maggie* **Walker,** the monohalogen derivatives of acenaphthene, T., 958; P., 127.
Crossley, *Arthur William,* and (*Miss*) *Nora* **Renouf,** acyl derivatives of the dihydroresorcins. Part I. The action of hydroxylamine and of phenylhydrazine on *C*-acetyldimethyl- and *C*-acetyltrimethyl-dihydroresorcins, T., 1524; P., 223.
Crossley, *Arthur William,* and *Sydney* **Smith,** bromoxylenols obtained from dimethyldihydroresorcin, preliminary note, P., 332.
Crowther, *Horace Leslie,* and *Hamilton* **McCombie,** the formation of tetrahydrooxazoles from α-hydroxy-β-anilino-αβ-diphenylethane and its homologues, P., 315.
Crymble, *Cecil Reginald,* the relation between the absorption spectra of metallic ions and their valency, T., 266.
Crymble, *Cecil Reginald, Kenneth* **Ross,** and *Samuel* **Smiles,** the two sulphides of β-naphthol, T., 1146; P., 162.
Cumming, *Alexander Charles.* See *Charles William Blyth* **Normand.**
Cunningham, (*Miss*) *Mary,* and *Charles* **Dorée,** the action of ozone on cellulose, T., 497; P., 38.

D.

Datta, *Rasik Lal,* the formation of dichlorocarbamide and its behaviour towards amines, T., 166.
Datta, *Rasik Lal.* See also *Prafulla Chandra* **Rây.**
Davidson, *Alfred.* See *Thomas Stewart* **Patterson.**
Davies, *Harold, Henry* **Stephen,** and *Charles* **Weizmann,** αδ-derivatives of adipic and β-methyladipic acids; preliminary note, P., 94.
Davies, *Harold.* See also *Charles* **Weizmann.**
Davies, *Samuel Henry.* See *James Scott* **Bainbridge.**
Dawson, *Harry Medforth,* and *Frank* **Powis,** the conditions of isodynamic change in the aliphatic ketones. Part I. The autocatalytic reaction between acetone and iodine, T., 1503; P., 159.
De, *Tincowry.* See *Prafulla Chandra* **Rây.**
Deakin, (*Miss*) *Stella,* and *Albert Cherbury David* **Rivett,** the conductivity and dissociation of diacetyltartaric acid, T., 127.
Derry, *John Newton.* See *Tom Sidney* **Moore.**
Dey, *Biman Bihari.* See *Martin Onslow* **Forster.**
Dhar, *Nilratan.* See *Prafulla Chandra* **Rây.**
Dixon, *Augustus Edward,* and *John* **Taylor,** substituted isothiohydantoins, T., 558; P., 54.
the constitution and reactions of thiocarbamides, T., 2502; P., 265.
Dobbie, *James Johnston,* and *John Jacob* **Fox,** the absorption spectra of quinine, cupreine, 6-methoxyquinoline and 6-hydroxyquinoline, T., 77.
Dobbie, *James Johnston, John Jacob* **Fox,** and *Arthur Josiah Hoffmeister* **Gauge,** diphenylene. Part II., P., 327.
Dorée, *Charles,* and *Charles* **Stotesbury,** the action of bromine on cholesteryl benzoate; preliminary note, P., 196.

Dorée, *Charles*. See also (*Miss*) *Mary* **Cunningham**.

Dunlop, *John Gunning Moore*, a study of some dicyclic quaternary ammonium compounds, T., 1998 ; P., 230.

Dunlop, *John Gunning Moore*. See also *Humphrey Owen* **Jones**.

Dunningham, *Alfred Charles*, an exact investigation of the three component system : sodium oxide, acetic anhydride, water, T., 431 ; P., 16.

Dunstan, *Albert Ernest*, *Thomas Percy* **Hilditch**, and *Ferdinand Bernard* **Thole**, the relation between viscosity and chemical constitution. Part VII. The effect of the relative position of two unsaturated groups on viscosity, P., 269.

Dunstan, *Albert Ernest*, and *Harold* **Langton**, the viscometric determination of transition points, T., 418 ; P., 14.

Dunstan, *Albert Ernest*, and *Ferdinand Bernard* **Thole**, the relation between viscosity and chemical constitution. Part V. The viscosity of homologous series, P., 269.

the relation between viscosity and chemical constitution. Part VI. Viscosity an additive function, P., 269.

Dunstan, *Albert Ernest*. See also *Albert George* **Mussell**.

Dutta, *Jatindra Mohan*, and *Edwin Roy* **Watson**, some hydroxy-ketonic dyes, T., 1238 ; P., 106.

E.

Edwards, (*Miss*) *Muriel Gwendolen*, *Ralph Eddowes* **Garrod**, and *Humphrey Owen* **Jones**, the constitution of the aldol bases, T., 1376 ; P., 163.

Evans, *Percy Edwin*. See *Ralph Eddowes* **Garrod**.

Ewins, *Arthur James*, the constitution and synthesis of damascenine, the alkaloid of *Nigella damascena*, T., 544 ; P., 38.

the constitution of cytisine, the alkaloid of *Cytisus laburnum*. Part I. The synthesis of α-cytisolidine and of β-cytisolidine, P., 329.

Ewins, *Arthur James* and *Harold* **King**, the synthesis of some new dimethyltetrahydroquinolines, P., 328.

F.

Fairlie, *Dorian Macefield*. See *John Norman* **Pring**.

Farrow, *Frederick Denny*, the viscosity of aqueous solutions of sodium palmitate and the influence of electrolytes on the same, T., 347 ; P., 19.

Feilmann, *Ernest*, the tendency of atomic weights to approximate to integral and semi-integral values, P., 283.

Fenton, *Henry John Horstman*, and *William Arthur Reginald* **Wilks**, studies on certain aliphatic hydroxy-acids, T., 1570 ; P., 187.

Ferns, *John*, and *Arthur* **Lapworth**, the preparation and properties of sulphonic esters, T., 273 ; P., 18, 263.

Field, (*Miss*) *Ellen*. See *George* **Barger**.

Findlay, *Alexander*, and *Bucchok* **Shen**, the influence of colloids and fine suspensions on the solubility of gases in water. Part II. Solubility of carbon dioxide and of hydrogen, T., 1459 ; P., 195.

Firth, *James Brierley*, and *James Eckersley* **Myers**, the action of sodium hyposulphite on copper sulphate in aqueous solution, P., 101.

Fletcher, *James*, and *Daniel* **Tyrer**, an easily adjustable vapour thermostat, P., 189.

the latent heats of chloroform and benzene and of their mixtures between 0° and 80°, P., 319.

Forster, *Martin Onslow*, and *Biman Bihari* **Dey**, hydrazoximes of benzil and diacetyl, T., 2234 : P., 275.

Forster, *Martin Onslow*, and *Hubert Arthur Harry* **Howard**, studies in the camphane series. Part XXXII. Orientation of Tiemann's isoaminocamphor, P., 313.

Forster, *Martin Onslow*, and *Johannes Heinrich* **Schaeppi**, perhalides of diphenyliodinium iodide, T., 382 ; P., 37 ; discussion, P., 37.

the triazo-group. Part XXI. Benzenoid azoimides containing multivalent iodine, T., 1359 ; P., 219.

Forster, *Martin Onslow*, and *Hans* **Spinner**, studies in the camphane series. Part XXXII. Stereoisomeric modifications of isonitrosoepicamphor, the third and fourth monoximes of camphorquinone, T., 1340 ; P., 46.

Forster, *Martin Onslow*, and *John Charles* **Withers**, the triazo-group. Part XX. Azoimides of the propane series, T., 489 ; P., 50.

studies in the camphane series. Part XXXI. Condensation of camphorquinone with nitromethane, ethyl cyanoacetate, and phenylacetonitrile, T., 1327.

Forsyth, *William Collins*. See *Thomas Stewart* **Patterson**.

Fox, *John Jacob*, and *Frank George* **Pope**, substituted thiolazo-derivatives of benzene, T., 1498; P., 200.

Fox, *John Jacob*. See also *James Johnston* **Dobbie**.

Franchimont, *Antoine Paul Nicolas*, and *Hilmar Johannes* **Backer**, absorption spectra of the cobalto-derivatives of primary aliphatic nitroamines, T., 2256; P., 264.

Francis, *Francis Ernest*. See *Douglas Arthur* **Clibbens**.

Frankland, *Edward Percy*, and *Henry Edgar* **Smith**, the action of aliphatic amines on *s*-dibromosuccinic acid. Part I., T., 57.

the action of aliphatic amines on *s*-dibromosuccinic acid. Part II. Allylamine, T., 1724; P., 224.

Frankland, *Percy Faraday*, presidential address, T., 654.

Frankland, *Percy Faraday*, *Sidney Raymond* **Carter**, and *Ernest Bryan* **Adams**, position-isomerism and optical activity. Halogen derivatives of methyl dibenzoyltartrate, T., 2470; P., 292.

Frankland, *Percy Faraday*, and *Hugh Henry* **O'Sullivan**, menthyl nitrilotriacetate, T., 287; P., 19.

Freeborn, *Albert*, experiments on a yellow colouring matter from ergot, P., 71.

Friend, *John Albert Newton*, the porosity of iron and its relation to passivity and corrosion, T., 50.

Funk, *Casimir*, the constitution of aminotyrosine and the action of oxydases on some tyrosine derivatives, T., 1004; P., 140.

G.

Garner, *William Edward*, a model of an asymmetric carbon atom, P., 65.

Garrod, *Ralph Eddowes*, *Humphrey Owen* **Jones**, and *Percy Edwin* **Evans**, some quinoline and tetrahydroquinoline derivatives obtained from aldol bases, T., 1389; P., 164.

Garrod, *Ralph Eddowes*. See also (*Miss*) *Muriel Gwendolen* **Edwards**.

Gauge, *Arthur Josiah Hoffmeister*. See *James Johnston* **Dobbie**.

Gibson, *Charles Stanley*. See *William Jackson* **Pope**.

Glendinning, *William Gerald*, and *Alfred Walter* **Stewart**, some time-reactions suitable for lecture experiments, P., 254.

Glover, *Walter Hamis*, and *Thomas Martin* **Lowry**, studies of dynamic isomerism. Part XIII. Camphorcarboxylamide and camphorcarboxypiperidide. An illustration of Barlow and Pope's hypothesis, T., 1902; P., 185.

Glover, *Walter Hamis*. See also *Thomas Martin* **Lowry**.

Godden, *William*. See *Arthur* **Clayton**.

Graham, *Joseph Ivon*, the optical activity of salts and derivatives of *d*-camphor-β-sulphonic acid, T., 746; P., 108.

Green, *Arthur George*, and *Frederick Maurice* **Rowe**, the alkaline condensations of nitrohydrazo-compounds. Part II. T., 2003; P., 233.

the alkaline condensations of nitrohydrazo-compounds. Part III. Influence of ortho-groups on their formation and condensation, T., 2443; P., 251.

the existence of quinonoid salts of *o*-nitroamines and their conversion into oxadiazole oxides, T., 2452; P., 252.

Green, *Arthur George*, and *Rajendra Nath* **Sen**, azo-dyestuffs of the triphenylmethane group, T., 1113; P., 137.

Green, *Arthur George*, and *Salomon* **Wolff**, aniline-black and allied compounds, P., 250.

Green, *Arthur George*, and *Arthur Edmund* **Woodhead**, aniline-black and allied compounds. Part II., T., 1117; P., 136.

Groves, *Clarence Richard*, and *Thomas* **Turner**, the behaviour of alloys when heated in a vacuum, T., 585; P., 62; discussion, P., 63.

H.

Haas, *Paul*, α-hydroxyhippuric acid and a new test for hippuric acid, T., 1254; P., 163.

Harden, *Arthur*, and *William John* **Young**, the preparation of glycogen and yeast-gum from yeast, T., 1928; P., 235.

Harding, *Victor John*, β-hydroxy-αβ-dimethyladipic acid and β-hydroxy-ααβ-trimethyladipic acid, T., 1590; P., 219.

Hardman, *Robert Taylor*, and *Arthur* **Lapworth**, electromotive forces in alcohol. Part III. Further experiments with the hydrogen electrode in dry and moist alcoholic hydrogen chloride, T., 2249; P., 263.

Hartley, *Ernald George Justinian*, the alkylation of the ferro- and ferricyanides, T., 705; P., 101.

Hartley, (*Sir*) *Walter Noel*, the absorption spectra of some metallic solutions, T., 820; P., 109.

the absorption spectra of permanganates, T., 826; P., 109.

Haworth, *Walter Norman*, and *Albert Theodore* **King,** the constitution of camphene. Part I. The structure of camphenic acid, T., 1975; P., 236.

Heilbron, *Isidor Morris*, and *James Alexander Russell* **Henderson,** action of semicarbazide hydrochloride on *p*-quinones; preliminary note, P., 256.

Heilbron, *Isidor Morris*, and *Forsyth James* **Wilson,** contributions to our knowledge of semicarbazones. Part I. Semicarbazones of phenyl styryl ketone, T., 1482; P., 192.

Henderson, *George Gerald*, and *William* **Caw,** contributions to the chemistry of the terpenes. Part XIII. The preparation of pure bornylene, T., 1416; P., 187.

Henderson, *George Gerald*, and *Schachno Peisach* **Schotz,** contributions to the chemistry of the terpenes. Part XV. Synthesis of a menthadiene from carvacrol, T., 2563; P., 314.

Henderson, *George Gerald*, and (*Miss*) *Maggie Millen Jeffs* **Sutherland,** contributions to the chemistry of the terpenes. Part XIV. The oxidation of pinene with hydrogen peroxide, T., 2288; P., 270.

Henderson, *James Alexander Russell*. See *Isidor Morris* **Heilbron.**

Hewitt, *John Theodore*, *William* **Lewcock,** and *Frank George* **Pope,** derivatives of *p*-hydroxystilbene, T., 604; P., 69.

Hewitt, *John Theodore*, *Frank George* **Pope,** and (*Miss*) *Winifred Isabel* **Willett,** the absorption spectra of nitro-compounds, T., 1770; P., 230.

Hewitt, *John Theodore*, and *William Henry* **Ratcliffe,** derivatives of *o*-hydroxyazobenzene, T., 1765; P., 229.

Hewitt, *John Theodore*, and *David Bernard* **Steinberg,** action of Grignard reagents on esters of dibasic acids; preliminary note, P., 140.

Hewitt, *John Theodore*. See also (*Miss*) *Kathleen* **Balls.**

Heycock, *Charles Thomas*, and *Francis Edward Everard* **Lamplough,** the boiling points of mercury, cadmium, zinc, potassium and sodium, P., 3.

Hibbert, *Harold*, the quantitative estimation of hydroxy-, amino-, and imino-derivatives of organic compounds by means of the Grignard reagent, and the nature of the changes taking place in solution, T., 328; P., 15.

a method for determining the relative reactivity of organic compounds, T., 341.

Hibbert, *Harold*, and *Archibald* **Wise,** a new method for the separation of tertiary from secondary and primary amines, T., 344.

Higgins, *Sidney Herbert*, an experimental investigation of the bleaching process, T., 222.

an experimental investigation of the bleaching process. Part II. The action of neutral salts on bleaching solutions, P., 130.

Hilditch, *Thomas Percy*, molecular rotatory power in normal homologous series. Part I. Optically active derivatives of the higher aliphatic alcohols and acids, T., 192.

Hilditch, *Thomas Percy*, and *Samuel* **Smiles,** the intramolecular rearrangement of diphenylamine *o*-sulphoxides. Part IV., T., 2294; P., 276.

Hilditch, *Thomas Percy*. See also *Harold* **Christopher,** and *Albert Ernest* **Dunstan.**

Hill, *Thomas Henry*, properties of mixtures of ethyl alcohol, carbon tetrachloride and water, T., 2467; P., 290.

Hodgson, *Herbert Henry*, the action of sulphur on amines. Part I. *o*-toluidine, T., 1693; P., 222.

Holden, *Thomas Halstead*. See *Arthur Walsh* **Titherley.**

Hollely, *William Francis*. See *Raphael* **Meldola.**

Hope, *Edward*, the condensation of ethyl sodiomalonate with ethyl citraconate and the synthesis of β-methyltricarballylic acid, T., 892; P., 93.

the addition of hydrocyanic acid to derivatives of glutaconic acid and itaconic acid; preliminary note, P., 192.

Hope, *Edward*, and *Robert* **Robinson,** β-gnoscopine, P., 16.

anhydrohydrastininemeconine; preliminary note, P., 17.

Hopwood, *Arthur*, and *Charles* **Weizmann,** condensation of bromoacyl haloids with glucosamine; preliminary note, P., 261.

Howard, *Hubert Arthur Harry*. See *Martin Onslow* **Forster.**

Hughes, *Ernest Chislett*, and *Arthur Walsh* **Titherley**, the action of ammonia on 6-chloro-2-phenyl-1 : 3-benzoxazine-4-one, T., 219 ; P., 6.

Hutchison, *Archibald Moritz*, and *Samuel* **Smiles**, syntheses of 3-oxy-(1)-thionaphthen, T., 570 ; P., 62.

Hynd, *Alexander*. See *James Colquhoun* **Irvine**.

I.

Irvine, *James Colquhoun*, and *Alexander* **Hynd**, the conversion of *d*-glucosamine into *d*-glucose, T., 1128 ; P., 54, 126.

synthetic aminoglucosides derived from *d*-glucosamine, P., 319.

J.

James, *Dan Ivor*, and *Humphrey Owen* **Jones**, the mechanism of the racemisation of some hydroxy-acids by heat, T., 1158 ; P., 143.

Jerusalem, *George*, morphotropic relationships between racemic compounds and their optically active components, T., 1268 ; P., 165.

Jobling, *Edgar*. See *Gilbert Thomas* **Morgan**.

Jones, *Ernest Griffiths*, *William Henry* **Perkin**, *jun.*, and *Robert* **Robinson**, isonarcotine, T., 257 ; P., 4.

Jones, *Humphrey Owen*, and *John Gunning Moore* **Dunlop**, the configuration of substituted ammonium compounds, T., 1748 ; P., 221.

Jones, *Humphrey Owen*, and *Charles Stanley* **Robinson**, nickelo- and palladio-dithio-oxalic acids, T., 932 ; P., 129.

dithiomalonates, T., 935 ; P., 129.

Jones, *Humphrey Owen*. See also (*Miss*) *Muriel Gwendolen* **Edwards**, *Ralph Eddowes* **Garrod**, *Dan Ivor* **James**, and *Richard William Dades* **Preston**.

Jones, (*Miss*) *Marian*. See *Kennedy Joseph Previté* **Orton**.

Jowett, *Hooper Albert Dickinson*, and *Frank Lee* **Pyman**, note on the alkaloids of *Pilocarpus racemosus*, P., 268.

K.

Kendall, *James*, the velocity of the hydrogen ion, and a general dissociation formula for acids, T., 1275 ; P., 158.

the problem of strong electrolytes; preliminary note, P., 255.

Kenner, *James*, formation of seven- and eight-membered rings from 2:2′-ditolyl, P., 187.

diphenyl-2:3:2′:3′-tetracarboxylic acid; preliminary note, P., 277.

Kenner, *James*, and (*Miss*) *Emily Gertrude* **Turner**, the reactions of dibenzocycloheptadienone ; preliminary note, P., 277.

Kenyon, *Joseph*. See *Robert Howson* **Pickard**.

King, *Albert Theodore*. See *Walter Norman* **Haworth**, and *William Hughes* **Perkins**.

King, *Harold*. See *Arthur James* **Ewins**.

Kipping, *Frederic Stanley*, organic derivatives of silicon. Part XV. The nomenclature of organic silicon compounds, T., 2106 ; P., 243.

organic derivatives of silicon. Part XVI. The preparation and properties of diphenylsilicanediol, T., 2108; P., 243.

organic derivatives of silicon. Part XVII. Some condensation products of diphenylsilicanediol, T., 2125 ; P., 244.

Kipping, *Frederic Stanley*. See also *Robert* **Robison** and *Thomas Alfred* **Smith**.

Knecht, *Edmund*, and *John Percy* **Batey**, a modification of the Beckmann apparatus, T., 1189 ; P., 142.

Krulla, *Rudolf*. See *Edward Charles Cyril* **Baly**.

L.

Lambert, *Bertram*, the wet oxidation of metals. Part II. The rusting of iron (continued), T., 2056 ; P., 197.

Lamplough, *Francis Edward Everard*. See *Charles Thomas* **Heycock**.

Landau, *A. Lionel*, the photophosphorescence of inorganic solid solutions, P., 2 ; discussion, P., 2.

Langton, *Harold*. See *Albert Ernest* **Dunstan**.

Lankshear, *Frederick Russell*, the so-called manganese trioxide ; preliminary note, P., 198.

Lapworth, *Arthur*. See *John Ickering* **Crabtree**, *John* **Ferns**, and *Robert Taylor* **Hardman**.

Law, *Herbert Drake*, electrolytic reduction. Part V. Benzylidene bases, T., 154.

electrolytic reduction. Part VI. Unsaturated aldehydes and ketones, T., 1016 ; P., 98.

electrolytic reduction. Part VII. The catalytic action of copper, T., 1544 ; P., 162.

Levy, *Leonard Angelo*, studies on platinocyanides, T., 1081; P., 91; discussion, P., 92.

Levy, *Stanley Isaac*. See *Siegfried* **Ruhemann**.

Lewcock, *William*. See *John Theodore* **Hewitt**, and *Clarence* **Smith**.

Lewis, *Ernest Alfred*, behaviour of brass on heating in hydrogen at temperatures below the melting point, P., 290.

Lewis, *William Cudmore McCullagh*, photokinetics of sodium hypochlorite solutions, T., 2371; P., 288.

Lewis, *William Cudmore McCullagh*. See also *Alexander* **Roshdestwensky**.

Linch, *Frank William*, the action of sodium hypobromite on carbamide derivatives. Part I., T., 1755; P., 144. 3-aminocoumarin, T., 1758; P., 230.

Lister, *Joseph*, and *Robert* **Robinson**, some derivatives of oxazole, T., 1297; P., 162.

Littlebury, *William Oswald*. See *Robert Howson* **Pickard**.

Lodge, (*Sir*) *Oliver*, Becquerel memorial lecture, T., 2005.

Lowry, *Thomas Martin*, the oxidation of atmospheric nitrogen in presence of ozone, T., 1152; P., 64.

a method of producing a steady thallium flame, P., 65.

Lowry, *Thomas Martin*, and *Walter Hamis* **Glover**, studies of dynamic isomerism. Part XIV. Successive isomeric changes in camphorcarboxylamide and camphorcarboxypiperidide, P., 186.

Lowry, *Thomas Martin*. See also *William Robert* **Bousfield**, and *Walter Hamis* **Glover**.

M.

McBain, *James William*, the use of phenolphthalein as an indicator. The slow rate of neutralisation of carbonic acid, T., 814; P., 106.

McBain, *James William*, (*Miss*) *Elfreida Constance Victoria* **Cornish**, and *Richard Charles* **Bowden**, studies of the constitution of soap in solution: Sodium myristate and sodium laurate, T., 2042; P., 237.

Macbeth, *Alexander Killen*, Baly and Krulla's hypothesis of fluorescence, P., 271.

Macbeth, *Alexander Killen*, and *Alfred Walter Stewart*, isoerucic acid, P., 68.

Macbeth, *Alexander Killen*, *Alfred Walter* **Stewart**, and *Robert* **Wright**, the reciprocal influence of unsaturated centres and its effect on the general absorptive power of compounds, T., 599; P., 71.

McCleland, *Nial Patrick*, bimolecular glycollaldehyde; a correction, P., 247.

McCleland, *Nial Patrick*. See also *John Edward* **Purvis**.

McCombie, *Hamilton*, and *John Wilfrid* **Parkes**, the condensation of α-keto-β-anilino-αβ-diphenylethane and its homologues with ethyl chlorocarbonate and thionyl chloride, T., 1991; P., 238.

McCombie, *Hamilton*, and *Harold Archibald* **Scarborough**, the condensation of α-keto-β-anilino-α-phenylethane and its homologues with carbonyl chloride, phenylcarbimide and phenylthiocarbimide, P., 331.

McCombie, *Hamilton*. See also *Clement William* **Bailey**, *Sidney Albert* **Brazier**, and *Horace Leslie* **Crowther**.

McDavid, *James Wallace*, *William Henry* **Perkin**, *jun.*, and *Robert* **Robinson**, the exhaustive alkylation of tetrahydroberberine, T., 1218; P., 160.

McKenzie, *Alexander*, configuration of the stereoisomeric dibromosuccinic acids, T., 1196; P., 160.

McKenzie, *Alexander*, and *George William* **Clough**, experiments on the Walden inversion. Part VIII. α-Amino-α-phenylpropionic acids, T., 390; P., 40.

McKenzie, *Alexander*, and *Geoffrey* **Martin**, optically active glycols derived from the phenyl-lactic acids. Part I., P., 326.

McMillan, *Andrew*. See *Thomas Stewart* **Patterson**.

Marle, *Ernest Robert*, the aryl ethers of glycide, glycerol, and glycerol-α-monochlorohydrin, T., 305; P., 5.

Martin, *Geoffrey*, dibenzyl- and diphenyl-silicols and -silicones, P., 326.

Martin, *Geoffrey*. See also *Alexander* **McKenzie**.

Masson, *James Irvine Orme*, the solubility of electrolytes in aqueous solutions. Part II. Solubility of oxalic acid in other acids, T., 103.

Masson, *James Irvine Orme*, and (*Sir*) *William* **Ramsay**, an analysis of the waters of the thermal springs of Bath, T., 1370; P., 183; discussion, P., 183.

May, *Percy*, aromatic antimony compounds. Part III. Some primary aryl derivatives, T., 1033; P., 5.

aromatic antimony compounds. Part IV. Compounds of antimony trichloride with diazonium chlorides, T., 1037; P., 96.

May, *Percy,* and *Samuel* **Smiles,** some reactions of the sulphoxylic acids, P., 329.

Meldola, *Raphael,* and *William Francis* **Hollely,** quinone-ammonium derivatives. Part I. The methylation products of picramic and isopicramic acids, T., 912; P., 128.

Merriman, *Richard William.* See *John* **Wade.**

Merton, *Thomas Ralph,* the photography of absorption spectra, P., 325.

Micklethwait, (*Miss*) *Frances Mary Gore.* See *John Cannell* **Cain,** and *Gilbert Thomas* **Morgan.**

Mills, (*Mrs.*) *Mildred.* See *William Hobson* **Mills.**

Mills, *William Hobson,* the preparation of durylic and pyromellitic acids, T., 2191; P., 243.

Mills, *William Hobson,* and (*Mrs.*) *Mildred* **Mills,** the synthetical production of derivatives of dinaphthanthracene, T., 2194; P., 242.

Mills, *William Hobson,* and *Walter Henry* **Watson,** note on the formation of tetrachlorophthalyl chloride by chlorination of tetrachlorophthalide, P., 262.

Montgomerie, *Harvey Hugh.* See *Thomas Stewart* **Patterson.**

Moore, *Tom Sidney, Donald Bradley* **Somervell,** and *John Newton* **Derry,** the velocity of reaction between potassium chloroacetate and some aliphatic amines, T., 2459; P., 278.

Moore, *Tom Sidney,* and *Thomas Field* **Winmill,** the state of amines in aqueous solution, T., 1635; P., 109, 126.

Morgan, *Gilbert Thomas, Edgar* **Jobling,** and *Raymond Theodore Fred* **Barnett,** the absorption spectra of certain aromatic nitroamines and nitroamides, T., 1209; P., 152.

Morgan, *Gilbert Thomas,* and (*Miss*) *Frances Mary Gore* **Micklethwait,** amino-derivatives of arylsulphonanilides and arylsulphon-β-naphthalides, T., 143.

aromatic amino-derivatives containing antimony; preliminary note, P., 19.

organic derivatives of arsenic and antimony; preliminary note, P., 68.

the constitution of *o*-diazoimines. Part II. The *p*-tolylnaphthatriazoles, P., 325.

Morgan, *Gilbert Thomas,* and *Henry Webster* **Moss,** co-ordination compounds of vanadium; preliminary note, P., 199.

co-ordination compounds of vanadium. Part I. The acylacetonates, P., 325.

Morgan, *Gilbert Thomas,* and *Joseph* **Reilly,** non-aromatic diazonium salts; preliminary note, P., 334.

Morrell, *Robert Selby,* studies of Chinese wood oil. β-elæostearic acid, T., 2082; P., 235.

Moss, *Henry Webster.* See *Gilbert Thomas* **Morgan.**

Müller, *Hugo,* inositol and some of its isomerides, T., 2383; P., 291.

Mussell, *Albert George, Ferdinand Bernard* **Thole,** and *Albert Ernest* **Dunstan,** the viscosity of compounds containing tervalent nitrogen. Part I. The amines, T., 1008; P., 70.

Myers, *James Eckersley.* See *James Brierley* **Firth.**

N.

Naunton, *William Johnson Smith.* See *Siegfried* **Ruhemann.**

Neave, *George Ballingall,* the catalytic action of copper at 300° on some alcohols of the terpene group, T., 513; P., 53.

Neogi, *Pañchānan,* nitrites of primary, secondary, and tertiary bases, T., 1608; P., 53.

preparation of the nitrites of primary, secondary and tertiary amines. Part I., P., 41.

Neville, *Allan,* the "crude fat" of *Beta vulgaris,* T., 1101; P., 130.

Newman, *Sidney Herbert.* See (*Miss*) *Kathleen* **Balls.**

Nolan, *Thomas Joseph,* and *Samuel* **Smiles,** the interaction of bromine with the two sulphides of β-naphthol, T., 1420; P., 188.

salts of naphthathioxonium; preliminary note, P., 276.

Norman, *George Marshall,* some new diazoamino- and *o*-aminoazo-compounds, T., 1913; P., 232.

Normand, *Charles William Blyth,* and *Alexander Charles* **Cumming,** the action of halogens on silver salts and on potassium cyanate in presence of water, with a note on the decomposition of cyanic acid in aqueous solution, T., 1852; P., 225.

Nuttall, *Walter Harold.* See *William Francis* **Cooper.**

O.

Östling, *Gustav Jim,* the influence of three- and four-membered carbon rings on the refractive and dispersive power of organic compounds, T., 457.

Orton, *Kennedy Joseph Previté,* and (*Miss*) *Marian* **Jones,** hydrolysis of acetic anhydride, T., 1708 ; P., 221.
acetic anhydride. The pure material, its physical properties, and its reaction with bromine, T., 1720 ; P., 222.
O'Sullivan, *Hugh Henry.* See *Percy Faraday* **Frankland.**

P.

Page, *Harold James,* hydroxymethylphosphinic acid and some homologues, T., 423 ; P., 38 ; discussion, P., 39.
Parkes, *John Wilfrid.* See *Hamilton* **McCombie.**
Patterson, *Thomas Stewart,* an attempt to harmonise the relation between temperature and rotation for light of all refrangibilities, of certain active substances, both in the homogeneous state and in solution, P., 324.
Patterson, *Thomas Stewart,* and *Duncan Geddes* **Anderson,** the influence of solvents on the rotation of optically active compounds. Part XVIII. The effect of inorganic salts on the rotation of ethyl tartrate in aqueous solution and in the homogeneous condition, T., 1833 ; P., 224.
Patterson, *Thomas Stewart,* and *Alfred* **Davidson,** the methyl, ethyl, and isobutyl esters of di-trichloroacetyltartaric acid, and the existence of minima in their temperature-rotation curves, T., 374 ; P., 43.
Patterson, *Thomas Stewart,* and *William Collins* **Forsyth,** the velocity of interaction of iodic and sulphurous acids in various media, T., 40.
Patterson, *Thomas Stewart,* and *Andrew* **McMillan,** the action of chloral on ethyl tartrate and on ethyl malate, T., 788 ; P., 101.
Patterson, *Thomas Stewart,* and *Harvey Hugh* **Montgomerie,** the influence of neutral solvents on velocity of reaction. Parts I. and II. Transformation of anis*syn*aldoxime in various solvents, T., 26, 2100 ; P., 240.
Patterson, *Thomas Stewart,* and (*Miss*) *Elizabeth Findlay* **Stevenson,** the influence of solvents on the rotation of optically active compounds. Part XVII. The relationship between the chemical constitution and the influence of a solvent, T., 241 ; P., 8.
Perkin, *Arthur George,* purpurogallin. Part II., T., 803 ; P., 94.
Perkin, *Arthur George,* the colouring matters of the flowers of the *Cedrela toona,* T., 1538 ; P., 198.
ethylation in the flavone group, P., 328.
Perkin, *William Henry, jun., Walter Morrell* **Roberts,** and *Robert* **Robinson,** 1:2-diketohydrindene, T., 232 ; P., 4.
Perkin, *William Henry, jun.,* and *Robert* **Robinson,** harmine and harmaline. Part I., T., 1775 ; P., 217.
experiments on the synthesis of brazilin and hæmatoxylin and their derivatives ; preliminary note, P., 7.
the constitution of harmine ; preliminary note, P., 153.
the synthesis of isoharman ; preliminary note, P., 154.
Perkin, *William Henry, jun.* See also *Norman* **Bland,** *Julius* **Bredt,** *Ernest Griffiths* **Jones,** and *James Wallace* **McDavid.**
Perkins, *William Hughes,* and *Albert Theodore* **King,** the precipitation of lead thiosulphate and its behaviour on boiling with water, P., 315.
Philip, *James Charles,* the refraction and dispersion of triazo-compounds. Part II., T., 1866 ; P., 226.
note on the hydrolysis of acetic anhydride, P., 259.
Pickard, *Robert Howson,* and *Joseph* **Kenyon,** investigations on the dependence of rotatory power on chemical constitution. Part II. The rotations of some secondary alcohols containing the isopropyl group, T., 620.
investigations on the dependence of rotatory power on chemical constitution. Part III. The rotations of *ac*-tetrahydro-2-naphthol and some of its esters, T., 1427 ; P., 137 ; discussion, P., 138.
investigations on the dependence of rotatory power on chemical constitution ; preliminary note, P., 42.
Pickard, *Robert Howson,* and *William Oswald* **Littlebury,** the alcohols of the hydroaromatic and terpene series. Part II. The menthols corresponding with optically inactive menthone, T., 109.
Pickering, *Spencer* [*Percival*] *Umfreville,* copper salts and their behaviour with alkalis, T., 174.
alkaline cupri-compounds, T., 1614 ; P., 142.
the colour intensity of copper salts, T., 1625 ; P., 184 ; discussion, P., 184.
Pickles, *Samuel Shrowder,* the essential oil of the "Nepal sassafras" or "Nepal camphor" tree, T., 1433 ; P., 192.

Pickles, *Samuel Shrowder*. See also *Samuel James Manson* **Auld**.

Pope, *Frank George*, note on the nitration of *p*-hydroxyacetophenone, P., 331.

Pope, *Frank George*, and *Arthur Samuel* **Wood**, the bromination of phenol: 2:4- and 2:6-dibromophenol, T., 1823; P., 225.

Pope, *Frank George*. See also *John Jacob* **Fox**, and *John Theodore* **Hewitt**.

Pope, *William Jackson*, and *Charles Stanley* **Gibson**, some mixed phosphonium derivatives, T., 735; P., 108.

the alkaloidal salts of phenylmethylphosphinic acid, T., 740; P., 109.

the resolution of benzoylalanine into its optically active components, T., 939; P., 126.

the resolution of sec.-butylamine into optically active components, T., 1702; P., 220.

Pope, *William Jackson*, and *John* **Read**, asymmetric quinquevalent nitrogen compounds of simple molecular constitution, T., 519; P., 49.

the externally compensated and optically active hydroxyhydrindamines, their salts and derivatives, T., 758; P., 107.

the absence of optical activity in the α- and β-2:5-dimethylpiperazines, T., 2325; P., 278.

Pope, *William Jackson*, and *Thomas Field* **Winmill**, the relation between constitution and rotatory power amongst derivatives of tetrahydroquinaldine, T., 2309; P., 275.

Power, *Frederick Belding*, and *Henry* **Browning**, *jun.*, the constituents of *Taraxacum* root, T., 2411; P., 285.

Power, *Frederick Belding*, and *Harold* **Rogerson**, chemical examination of the root of *Ipomœa orizabensis*, T., 1.

chemical examination of scammony root and of scammony, T., 398, P., 39.

Powis, *Frank*. See *Harry Medforth* **Dawson**.

Preston, *Richard William Dades*, and *Humphrey Owen* **Jones**, the rate of reaction of alkyl haloids with certain tertiary bases, T., 1930; P., 229.

Price, *Thomas Slater*, and *Douglas Frank* **Twiss**, the refractivity of sulphur in various aliphatic compounds, T., 1259; P., 159.

Pring, *John Norman*, and *Dorian Macefield* **Fairlie**, the methane equilibrium, T., 91.

Purvis, *John Edward*, the absorption spectra of various derivatives of naphthalene in solution and as vapours, T., 1315; P., 157.

Purvis, *John Edward*, and *Nial Patrick* **McCleland**, the absorption spectra of some substances containing two benzene nuclei, T., 1514; P., 188.

the absorption spectra of simple aliphatic substances in solutions, vapours, and thin films. Part I. Saturated aldehydes and ketones, T., 1810; P., 233.

Pyman, *Frank Lee*, the synthesis of glyoxaline derivatives allied to pilocarpine, T., 530; P., 47.

pilosine: a new alkaloid from *Pilocarpus microphyllus*, T., 2260; P., 267.

Pyman, *Frank Lee*, and *Frederic George Percy* **Remfry**, isoquinoline-derivatives. Part VII. The preparation of hydrastinine from cotarnine, T., 1595; P., 228.

Pyman, *Frank Lee*. See also *Hooper Albert Dickinson* **Jowett**.

R.

Rakshit, *Jitendra Nath*. See *Prafulla Chandra* **Rây**.

Ramsay, (*Sir*) *William*, Moissan memorial lecture, T., 477.

the formation of neon as a product of radioactive change, T., 1367; P., 182; discussion, P., 183.

Ramsay, (*Sir*) *William*. See also *James Irvine Orme* **Masson**.

Ratcliffe, *William Henry*. See *John Theodore* **Hewitt**.

Rây, *Prafulla Chandra*, and *Rasik Lal* **Datta**, benzylmethyl-, benzylethyl-, and allyl-ammonium nitrites, P., 258.

Rây, *Prafulla Chandra*, and *Nilratan* **Dhar**, the molecular conductivities of potassium nitrite, mercuric nitrite, and potassium mercurinitrite, T., 965; P., 102.

chlorides of the mercurialkyl- and mercurialkylaryl-ammonium series and their constitution as based on conductivity measurements, P., 292.

molecular conductivity and ionisation of nitrites, P., 319.

Rây, *Prafulla Chandra*, *Nilratan* **Dhar**, and *Tincowry* **De**, the vapour density of ammonium nitrite, T., 1185; P., 151.

nitrites of the mercurialkyl- and mercurialkylaryl-ammonium series. Part II., T., 1552; P., 185.

Rây, *Prafulla Chandra*, and *Jitendra Nath* **Rakshit**, nitrites of the alkylammonium series. Part II. Propylammonium nitrite and butylammonium nitrite and their decomposition by heat, T., 141.

nitrites of the alkylammonium series. Part III. Triethylammonium nitrite and its decomposition and sublimation by heat, T., 216.

nitrites of the alkylammonium series. Part IV. isobutyl-, diethyl-, dipropyl-, and tripropyl-ammonium nitrites, T., 612; P., 41.

nitrites of the alicyclic ammonium series. Part I. Nitrosopiperazinium nitrite, P., 102.

Rây, *Prafulla Chandra*, *Jitendra Nath* **Rakshit**, and *Rasik Lal* **Datta**, nitrites of the mercurialkyl- and mercurialkylaryl-ammonium series, T., 616; P., 41.

Read, *John*, the condensation of pentaerythritol with aldehydes, T., 2090; P., 240.

Read, *John*. See also *William Jackson* **Pope**.

Reilly, *Joseph*. See *Gilbert Thomas* **Morgan**.

Remfry, *Frederic George Percy*. See *Frank Lee* **Pyman**.

Renouf, (*Miss*) *Nora*. See *Arthur William* **Crossley**.

Report of the Council, T., 639; P., 75.

Report of the International Committee on atomic weights, T., 1829; P., 214.

Reynolds, *William Colebrook*, and *William Henry* **Taylor**, the decomposition of nitric acid by light, T., 131.

Reynolds, *William Colebrook*. See also *Francis Howard* **Carr**.

Rhead, *Thomas Fred Eric*, and *Richard Vernon* **Wheeler**, the rate of reduction of carbon dioxide by carbon, T., 831; P., 104.

the combustion of carbon, T., 846; P., 105.

Rice, *Francis Owen*. See *Edward Charles Cyril* **Baly**.

Rivett, *Albert Cherbury David*. See (*Miss*) *Stella* **Deakin**.

Roberts, *Walter Morrell*. See *William Henry* **Perkin**, *jun.*

Robertson, *Philip Wilfred*, and *Henry Vincent Aird* **Briscoe**, the migration of the para-halogen atom in phenols, T., 1964; P., 219.

Robinson, *Charles Stanley*, and *Humphrey Owen* **Jones**, complex thio-oxalates, T., 62.

Robinson, *Charles Stanley*. See also *Humphrey Owen* **Jones**.

Robinson, *Robert*. See *Norman* **Bland**, *Edward* **Hope**, *Ernest Griffiths* **Jones**, *Joseph* **Lister**, *James Wallace* **McDavid**, and *William Henry* **Perkin**, *jun.*

Robison, *Robert*, and *Frederic Stanley* **Kipping**, organic derivatives of silicon. Part XVIII. Dibenzylsilicanediol and its anhydro-derivative, T., 2142; P., 245.

organic derivatives of silicon. Part XIX. The preparation and properties of some silicanediols of the type $SiR_2(OH)_2$, T., 2156; P., 245.

Rogerson, *Harold*, chemical examination of the bark of *Euonymus atropurpureus*, T., 1040; P., 138; discussion, P., 138.

Rogerson, *Harold*. See also *Frederick Belding* **Power**.

Roshdestwensky, *Alexander*, and *William Cudmore McCullagh* **Lewis**, the electrochemistry of solutions in acetone. Part II. The silver nitrate concentration cell, T., 2094; P., 239.

Ross, *Kenneth*, and *Samuel* **Smiles**, the dehydration of iso-β-naphthol sulphide, P., 275.

Ross, *Kenneth*. See also *Cecil Reginald* **Crymble**.

Rowe, *Frederick Maurice*. See *Arthur George* **Green**.

Ruhemann, *Siegfried*, triketomethylenedioxyhydrindene, T., 780; P., 95.

studies on cyclic ketones. Part I., T., 1729; P., 224.

Ruhemann, *Siegfried*, and *Stanley Isaac* **Levy**, studies on cyclic ketones. Part II., T., 2542; P., 316.

Ruhemann, *Siegfried*, and *William Johnson Smith* **Naunton**, diphenylcyclopentenone, T., 42.

S.

Salway, *Arthur Henry*, researches on the constitution of physostigmine. Part I., T., 978; P., 125.

Sanders, *James McConnell*, the determination of sulphur in petroleum, T., 358.

Scarborough, *Harold Archibald*. See *Hamilton* **McCombie**.

Schaeppi, *Johannes Heinrich*. See *Martin Onslow* **Forster**.

Schotz, *Schachno Peisach*. See *George Gerald* **Henderson**.

Schwers, *Frédéric*, carbon disulphide as solvent for the determination of the "refraction constant," T., 1899; P., 239.

Schwers, *Frédéric*, halogen derivatives and refraction constant, P., 246.
the magnetic rotation of binary mixtures, P., 294.
Scott, (*Miss*) *Margaret Emilie*, the essential oil of the leaves of *Atherosperma moschatum* ("Australian sassafras"), T., 1612; P., 217.
Sell, *William James*, the action of sodium methoxide on 2:3:4:5-tetrachloropyridine. Parts I. and II., T., 1193, 1945; P., 165, 234.
Sen, *Rajendra Nath*. See *Arthur George* **Green**.
Senier, *Alfred*, *Frederick George* **Shepheard**, and (*Miss*) *Rosalind* **Clarke**, studies in phototropy and thermotropy. Part III. Arylideneamines, T., 1950; P., 236.
Senter, *George*, and *Fritz* **Bulle**, the influence of sodium salts of organic acids on the rate of hydrolysis by alkali, T., 2528; P., 288.
Senter, *George*, and *Thomas John* **Ward**, reactivity of the halogens in organic compounds. Part VII. The formation of intermediate compounds in the hydrolysis of sodium bromoacetate, T., 2534; P., 293.
Shen, *Bucchok*. See *Alexander* **Findlay**.
Shepheard, *Frederick George*. See *Alfred* **Senier**.
Simonsen, *John Lionel*. See *John Cannell* **Cain**.
Smiles, *Samuel*. See *Harold* **Christopher**, *Cecil Reginald* **Crymble**, *Thomas Percy* **Hilditch**, *Archibald Moritz* **Hutchison**, *Percy* **May**, *Thomas Joseph* **Nolan**, and *Kenneth* **Ross**.
Smith, *Clarence*, and *William* **Lewcock**, pyrogenic decompositions. Part I. Benzene, T., 1453; P., 152.
Smith, *Henry Edgar*. See *Edward Percy* **Frankland**.
Smith, *Sydney*. See *Arthur William* **Crossley**.
Smith, *Thomas Alfred*, and *Frederic Stanley* **Kipping**, a study of some organic derivatives of tin as regards their relation to the corresponding silicon compounds, T., 2553; P., 313.
Smythe, *John Armstrong*, the oxidation of some benzyl compounds of sulphur. Part I., T., 2076; P., 242.
Smythe, (*Miss*) *Wilhelmina Rebecca*. See *Holland* **Crompton**.
Somervell, *Donald Bradley*. See *Tom Sidney* **Moore**.
Spinner, *Hans*. See *Martin Onslow* **Forster**.
Steinberg, *David Bernard*. See *John Theodore* **Hewitt**.
Stephen, *Henry*, and *Charles* **Weizmann**, tyrosine and its derivatives containing substituents in the benzene ring; preliminary note, P., 160.
Stephen, *Henry*. See also *Harold* **Davies**, and *Charles* **Weizmann**.
Stephenson, (*Miss*) *Elizabeth Findlay*. See *Thomas Stewart* **Patterson**.
Stewart, *Alfred Walter*. See *William Gerald* **Glendinning**, and *Alexander Killen* **Macbeth**.
Stotesbury, *Charles*. See *Charles* **Dorée**.
Sudborough, *John Joseph*, the formation and hydrolysis of esters of ketonic acids, T., 1227; P., 93.
Sudborough, *John Joseph*, and (*Miss*) *Margaret Kathleen* **Turner**, the esterification constants of some substituted acetic and benzoic acids, T., 237; P., 5.
Sudborough, *John Joseph*. See also *Ebenezer Rees* **Thomas**, and *Thomas* **Williams**.
Sutherland, (*Miss*) *Maggie Millen Jeffs*. See *George Gerald* **Henderson**.
Swinton, *Alan Edulf*. See *Frederick Daniel* **Chattaway**.

T.

Taylor, (*Miss*) *Clara Millicent*, the rotatory powers of the *d*- and *l*-methylethylphenacylthetine salts, T., 1124; P., 148.
Taylor, *Hugh Stott*, the action of halogens on silver salts, P., 314.
Taylor, *Hugh Stott*. See also *Henry* **Bassett**, *jun.*
Taylor, *John*. See *Augustus Edward* **Dixon**.
Taylor, *Robert Llewellyn*, and *Clifford* **Bostock**, researches on bleaching powder. Part II. The action of dilute acids on bleaching powder, T., 444; P., 14.
Taylor, *William Henry*. See *William Colebrook* **Reynolds**.
Thole, *Ferdinand Bernard*, the preparation of conductivity water, T., 207; P., 3; discussion, P., 3.
viscosity and association. Part II. The viscosity of geometrical isomerides, T., 552; P., 51.
viscosity and association. Part III. The existence of racemic compounds in the liquid state, P., 286; discussion, P., 287.
Thole, *Ferdinand Bernard*. See also *Albert Ernest* **Dunstan**, and *Albert George* **Mussell**.

Thomas, *Ebenezer Rees*, the influence of the constitution of tertiary bases on the rate of formation of quaternary ammonium salts; preliminary note, P., 188.

Thomas, *Ebenezer Rees*, and *John Joseph* **Sudborough**, the direct esterification of saturated and unsaturated acids, T., 317.

Thomas, *John*, the four stereoisomeric optically active 2:4-dimethyltetrahydroquinolines, T., 725; P., 108.

Thompson, *Hugh Vernon*, the interaction between di-iodoacetylene and organic sodio-derivatives, P., 146.

Thorpe, *Jocelyn Field*, the formation and reactions of imino-compounds. Part XVII. The alkylation of imino-compounds, T., 249; P., 4.

the chemistry of the glutaconic acids; a correction, P., 51.

Thorpe, *Jocelyn Field*. See also *Norman* **Bland**.

Tilden, (*Sir*) *William Augustus*, Cannizzaro memorial lecture, T., 1677.

Tinkler, *Charles Kenneth*, the spectroscopic investigation of the carbinol-ammonium base isomerism. Benziminazole and isoquinoline derivatives, T., 1245; P., 161.

Titherley, *Arthur Walsh*, and *Thomas Halstead* **Holden**, the action of acyl chlorides on primary amides, T., 1871; P., 227.

the action of benzotrichloride on primary amides, T., 1881; P., 227.

Titherley, *Arthur Walsh*. See also *Gerald Eyre Kirkwood* **Branch**, and *Ernest Chisiett* **Hughes**.

Turner, (*Miss*) *Emily Gertrude*. See *James* **Kenner**.

Turner, (*Miss*) *Margaret Kathleen*. See *John Joseph* **Sudborough**.

Turner, *Thomas*. See *Clarence Richard* **Groves**.

Turner, *William Ernest Stephen*, the molecular condition of some organic ammonium salts in bromoform, T., 1923; P., 234.

Tutin, *Frank*, and *Hubert William Bentley* **Clewer**, the constituents of commercial chrysarobin, T., 290; P., 13.

the constituents of *Cluytia similis*, T., 2221; P., 265.

note on the constituents of rhubarb, P., 96.

the formulæ of ipuranol and some related compounds, P., 317.

Twiss, *Douglas Frank*. See *Thomas Slater* **Price**.

Tyrer, *Daniel*, latent heats of vaporisation of mixed liquids. Part II., T., 81.

latent heats of vaporisation of mixed liquids. Part III. Mixtures of associated with non-associated liquids. New criteria for the detection of solvates in mixtures of liquids, T., 1104; P., 128.

Tyrer, *Daniel*. See also *James* **Fletcher**.

W.

Wade, *John*, and *Richard William* **Merriman**, the purification, density and expansion of ethyl acetate, T., 2429; P., 246.

the vapour pressure of ethyl acetate from 0° to 100°, T., 2438; P., 246.

Walker, (*Miss*) *Maggie*. See *Holland* **Crompton**.

Wallace, *Thomas Arthur*, and *William Ringrose Gelston* **Atkins**, properties of mixtures of allyl alcohol and water. Part I., T., 1179; P., 141.

properties of mixtures of allyl alcohol, water, and benzene. Part II., T., 1958; P., 231.

Warburton, *Christopher Henry*. See *Hubert Frank* **Coward**.

Ward, *Thomas John*. See *George* **Senter**.

Watson, *Edwin Roy*. See *Jatindra Mohan* **Dutta**.

Watson, *Walter Henry*. See *William Hobson* **Mills**.

Weizmann, *Charles*, *Harold* **Davies**, and *Henry* **Stephen**, condensation of acid chlorides with the ethyl esters of (*a*) cyanoacetic acid, (*b*) malonic acid, and (*c*) acetoacetic acid; preliminary note, P., 103.

Weizmann, *Charles*. See also *Harold* **Davies**, *Arthur* **Hopwood**, and *Henry* **Stephen**.

Werner, *Emil Alphonse*, the interaction of iodine and thiocarbamide. The properties of formamidine disulphide and its salts, T., 2166; P., 240.

the action of nitrous acid on thiocarbamide and on formamidine disulphide. A new structural formula for thiocarbamide, T., 2180; P., 241.

the interaction of azoimide and nitrous acid; preliminary note, P., 257.

Werner, *Emil Alphonse*. See also *William Ringrose Gelston* **Atkins**.

Wheeler, *Richard Vernon*. See *Thomas Fred Eric* **Rhead**.

Wilks, *William Arthur Reginald*, the absorption of the halogens by dry slaked lime, T., 366.
Wilks, *William Arthur Reginald*. See also *Henry John Horstman* **Fenton**.
Willett, (*Miss*) *Winifred Isabel*. See *John Theodore* **Hewitt**.
Williams, *Herbert Ernest*, some hydrogen ferrocyanides, P., 317.
Williams, *Herbert Goulding*, a new method for the estimation of hypochlorites, P., 327.
Williams, *Thomas*, and *John Joseph* **Sudborough**, the hydrolysis and saponification of esters of saturated and unsaturated acids, T., 412; P., 41.
Wilson, *Forsyth James*. See *Isidor Morris* **Heilbron**.
Winmill, *Thomas Field*, asymmetric quaternary arsonium compounds and their attempted resolution, T., 718; P., 93.
Winmill, *Thomas Field*. See also *Tom Sidney* **Moore**, and *William Jackson* **Pope**.
Wise, *Archibald*. See *Harold* **Hibbert**.
Withers, *John Charles*. See *Martin Onslow* **Forster**.
Wolff, *Salomon*. See *Arthur George* **Green**.
Wood, *Arthur Samuel*. See *Frank George* **Pope**.
Woodhead, *Arthur Edmund*. See *Arthur George* **Green**.
Wright, *Robert*, molecular-weight determinations from the relative lowering of the vapour pressure of ethereal solutions, P., 96.
Wright, *Robert*. See also *Alexander Killen* **Macbeth**.

Y.

Young, *Charles Robert*, optically active derivatives of *l*-methoxy- and *d*-dimethoxy-succinic acids; preliminary note, P., 143.
Young, *William John*. See *Arthur* **Harden**.

INDEX OF SUBJECTS.

TRANSACTIONS AND PROCEEDINGS. 1912.

(Marked T. and P. respectively.)

Single organic compounds of known empirical formula will be found in the Formula Index, p. 2595.

A.

Absorptive power, influence of unsaturated centres on (MACBETH, STEWART and WRIGHT), T., 599; P., 71.

Acetic acids, substituted, esterification constants of (SUDBOROUGH and TURNER), T., 237; P., 5.

Acid chlorides, condensation of, with ethyl cyanoacetate, malonate and acetoacetate (WEIZMANN, DAVIES and STEPHEN), P., 103.

Acids, dissociation formula for (KENDALL), T., 1275; P., 158.

dibasic, action of Grignard reagents on esters of (HEWITT and STEINBERG), P., 140.

fatty α-bromo-, menthyl esters of (CHRISTOPHER and HILDITCH), T., 202.

higher, optically active derivatives of (HILDITCH), T., 192.

organic, cupric alkaline salts of (PICKERING), T., 1614; P., 142.

sodium salts, influence of, on hydrolysis by alkali (SENTER and BULLE), T., 2528; P., 288.

saturated, esterification of (THOMAS and SUDBOROUGH), T., 317.

hydrolysis of esters of (WILLIAMS and SUDBOROUGH), T., 412; P., 41.

unsaturated, esterification of (THOMAS and SUDBOROUGH), T., 317.

hydrolysis of esters of (WILLIAMS and SUDBOROUGH), T., 412; P., 41.

Aconitic acids, chemistry of (BLAND and THORPE), P., 131.

Aconitine, $C_{34}H_{47}O_{11}N$.

Acylacetonates of vanadium (MORGAN and MOSS), P., 199, 325.

Acylaminoketones, isomeric change of halogen-substituted diacylanilides into (ANGEL), T., 515; P., 46.

Acyl chlorides, action of, on primary amides (TITHERLEY and HOLDEN), T., 1871; P., 227.

Address, congratulatory, to the Royal Society, P., 248.

presidential (FRANKLAND), T., 654.

AFFINITY, CHEMICAL:—

Affinity, residual, relation between chemical constitution and (CLARKE), T., 1788; P., 220.

Velocity of hydrolysis by alkali, influence of sodium salts of organic acids on (SENTER and BULLE), T., 2528; P., 288.

Velocity of reaction, influence of neutral solvents on (PATTERSON and MONTGOMERIE), T., 26, 2100; P., 240.

of alkyl haloids and tertiary bases (PRESTON and JONES), T., 1930; P., 229.

Alcohols and ethers, viscosity of mixtures of (BAKER), T., 1409; P., 165.

higher fatty, optically active derivatives of (HILDITCH), T., 192.

secondary, containing the isopropyl group, rotations of (PICKARD and KENYON), T., 620.

of the hydroaromatic and terpene series (PICKARD and LITTLEBURY), T., 109.

of the terpene group, catalytic action of copper at 300° on (NEAVE), T., 513; P., 53.

Aldehydes, absorption spectra of (PURVIS and MCCLELAND), T., 1810; P., 233.

condensation of pentaerythritol with (READ), T., 2090; P., 240.

unsaturated, electrolytic reduction of (LAW), T., 1016; P., 98.

Aldol bases, constitution of (EDWARDS, GARROD and JONES), T., 1376; P., 163.

Alkyl haloids, rate of reaction of tertiary bases and (PRESTON and JONES), T., 1930; P., 229.

Alkylammonium mercuri-nitrites (RÂY, RAKSHIT and DATTA), T., 616; P., 41.

Alkylammonium nitrites (RÂY and RAKSHIT), T., 141, 216, 612; P., 41.
Alkylnitrosoamides, electro-reduction of (BACKER), T., 592; P., 65.
Alloys, behaviour of, on heating in a vacuum (GROVES and TURNER), T., 585; P., 62.
Amides, primary, action of acyl chlorides on (TITHERLEY and HOLDEN), T., 1871; P., 227.
action of benzotrichloride on (TITHERLEY and HOLDEN), T., 1881; P., 227.
Amines, state of, in aqueous solution (MOORE and WINMILL), T., 1635; P., 109, 126.
viscosity of the (MUSSELL, THOLE and DUNSTAN), T., 1008; P., 70.
action of sulphur on (HODGSON), T., 1693; P., 222.
fatty, action of, on *s*-dibromosuccinic acid (FRANKLAND and SMITH), T., 57, 1724; P., 224.
velocity of reaction of potassium chloroacetate and (MOORE, SOMERVELL and DERRY), T., 2459; P., 278.
primary, secondary and tertiary, nitrites of (NEOGI), T., 1608; P., 41, 53.
tertiary, separation of, from primary and secondary amines (HIBBERT and WISE), T., 344.
Ammonium compounds, substituted, configuration of (JONES and DUNLOP), T., 1748; P., 221.
Ammonium salts, quaternary, influence of the constitution of tertiary bases on the rate of formation of (THOMAS), P., 188.
Ammonium nitrite, density of (RÂY, DHAR and DE), T., 1185; P., 151.
Ammonium organic compounds, dicyclic quaternary (DUNLOP), T., 1998; P., 230.
molecular weights of, in bromoform (TURNER), T., 1923; P., 234.
Analysis, volumetric, titration of acids and alkalis in (MCBAIN), T., 814; P., 106.
Aniline-black and allied compounds (GREEN and WOODHEAD), T., 1117; P., 136; (GREEN and WOLFF), P., 250.
Annual General Meeting, T., 639; P., 75.
Antimony *tri*chloride, compounds of, with diazonium chlorides (MAY), T., 1037; P., 96.
Antimony organic compounds (MORGAN and MICKLETHWAIT), P., 68.
aromatic (MAY), T., 1033, 1037; P., 5, 96. (MORGAN and MICKLETHWAIT), P., 19.
Ararobinol, $C_{23}H_{16}O_5$.
Arsenic organic compounds (MORGAN and MICKLETHWAIT), P., 68.
Arsonium compounds, asymmetric quaternary, and their attempted resolution (WINMILL), T., 718; P., 93.
Arylsulphon-anilides and *p*-**naphthalides,** amino-derivatives of (MORGAN and MICKLETHWAIT), T., 142.
Association and viscosity (THOLE), T., 552; P., 51, 286.
Atherosperma moschatum, essential oil of the leaves of (SCOTT), T., 1612; P., 217.
Atomic weights, report of the International Committee on T., 1829; P., 214.
table of, T., 1882; P., 216.
approximation of, to integral and semi-integral values, P., 283.
Atropurol, $C_{27}H_{46}O_2$.
Azine series, studies in the (BALLS, HEWITT and NEWMAN), T., 1840; P., 231.
Azo-dyes of the triphenylmethane group (GREEN and SEN), T., 1113; P., 137.
Azoimide, interaction of nitrous acid and (WERNER), P., 257.

B.

Balance Sheets of the Chemical Society and of the Research Fund. See Annual General Meeting, T., 639; P., 75.
Bases, tertiary, rate of reaction of alkyl haloids and (PRESTON and JONES), T., 1930; P., 229.
influence of the constitution of, on the rate of formation of quaternary ammonium salts (THOMAS), P., 188.
Benziminazole derivatives, isomerism and absorption spectra of (TINKLER), T., 1245; P., 161.
Benzoic acids, substituted, esterification constants of (SUDBOROUGH and TURNER), T., 237; P., 5.
Benzyl compounds of sulphur, oxidation of (SMYTHE), T., 2076; P., 242.
Benzylidene bases, electrolytic reduction of (LAW), T., 154.
Benzylidene-diamides, *N*-chloro-derivatives of (CHATTAWAY and SWINTON), T., 1206; P., 158.
Berberilene, $C_{20}H_{20}O_5$.
Beta vulgaris, composition of the fat of (NEVILLE), T., 1101; P., 130.
Bleaching, investigation of the process of (HIGGINS), T., 232; P., 130.
Bleaching-powder, action of dilute acids on (TAYLOR and BOSTOCK), T., 444; P., 14.

Boiling-point determination, modification of Beckmann's apparatus for (Knecht and Batey), T., 1189; P., 142.
Brass, effect of heating, in hydrogen at temperatures below the melting point (Lewis), P., 290.
Brucine, $C_{23}H_{26}O_4N_2$.

C.

Cadmium, boiling point of (Heycock and Lamplough), P., 3.
Cæsalpina bonducella, constituents of (Bhaduri), P., 53.
Cæsium iodide, compound of, with thiocarbamide (Atkins and Werner), T., 1178; P., 141.
Calcium hydroxide, dry, absorption of the halogens by (Wilks), T., 366.
nitrate and its hydrates (Bassett and Taylor), T., 576; P., 48.
Camphane series, studies in the (Forster and Withers), T., 1327; (Forster and Spinner), T., 1340; P., 46; (Forster and Howard), P., 313.
Camphor tree, Nepal, essential oil of the (Pickles), T., 1433; P., 192.
Carbon, combustion of (Rhead and Wheeler), T., 846; P., 105.
rate of reduction of carbon dioxide by (Rhead and Wheeler), T., 831; P., 104.
Carbon *di*oxide, solubility of, in water containing colloids (Findlay and Shen), T., 1459; P., 195.
Carbon atom, asymmetric, model of (Garner), P., 65.
Cedrela toona, colouring matter of the flowers of (Perkin), T., 1538; P., 198.
Cellulose, action of ozone on (Cunningham and Dorée), T., 497; P., 38.
Chemical constitution, relation between residual affinity and (Clarke), T., 1788; P., 220.
and rotatory power (Pickard and Kenyon), T., 620, 1427; P., 42, 137; (Pope and Winmill), T., 2309; P., 275.
and viscosity (Dunstan and Thole; Dunstan, Hilditch and Thole), P., 269.
Chemical reactivity and absorption spectra (Baly and Rice), T., 1475; P., 197, 312.
Chinese wood oil, studies of (Morrell), T., 2082; P., 235.
Chlorine:—
Hypochlorites, estimation of (Williams), P., 327.
Cholalic acid, $C_{24}H_{40}O_5$.
Chrysarobin, commercial, constituents of (Tutin and Clewer), T., 290; P., 13.
Chrysophanolanthranol, $C_{15}H_{12}O_3$.
Cinchonine, $C_{19}H_{22}ON_2$.
Citrullol, $C_{28}H_{48}O_5$.
Cluytianol, $C_{29}H_{50}O_2$.
Cluytia similis, constituents of (Tutin and Clewer), T., 2221; P., 265.
Cluytiasterol, $C_{27}H_{44}O$.
Cluytinic acid, $C_{21}H_{42}O_2$.
Cluytyl alcohol, $C_{28}H_{58}O$.
Cobalt organic compounds, absorption spectra of (Franchimont and Backer), T., 2256; P., 264.
Cocoa, constituents of the essential oil of (Bainbridge and Davies), T., 2209; P., 253.
Colloids, influence of, on the solubility of gases in water (Findlay and Shen), T., 1459; P., 195.
Colouring-matters, hydroxy-ketonic (Dutta and Watson), T., 1238; P., 106.
yellow, from ergot (Freeborn), P., 71.
See also Nycanthin.
Coniine, $C_8H_{17}N$.
Copper, catalytic reduction by (Law), T., 1544; P., 162.
catalytic action of, at 300° on alcohols of the terpene group (Neave), T., 513; P., 53.
salts, colour intensity of (Pickering), T., 1625; P., 184.
of organic acids and their behaviour with alkalis (Pickering), T., 174.
sulphate, action of sodium hyposulphite on (Firth and Myers), P., 101.
Cupric alkaline salts of organic acids (Pickering), T., 1614; P., 142.
Crystallography, chemical, studies in (Barker), T., 2484; P., 253.
Cupreine, $C_{19}H_{22}O_2N_2$.
α-Cytisolidine, $C_{11}H_{18}N$.
β-Cytisolidine, $C_{11}H_{11}N$.

D.

Damascenine, $C_{10}H_{13}O_2N$.
Diacylanilides, halogen-substituted, isomeric change of, into acylaminoketones (Angel), T., 515; P., 46.
o-Diazoimines, constitution of (Morgan and Micklethwait), P., 325.
Diazonium salts, non-aromatic (Morgan and Reilly), P., 334.
Dibenzyl-silicols and **-silicones** (Martin), P., 326.
Dihydroresorcins, acyl derivatives of (Crossley and Renouf), T., 1524; P., 223.

Diphenylamine *o*-**sulphoxides**, intramolecular rearrangements of (HILDITCH and SMILES), T., 2294; P., 276.
Diphenyl series, studies in the (CAIN, COULTHARD and MICKLETHWAIT), T., 2298; P., 277; (CAIN and BRADY), T., 2304; P., 285.
Diphenyl-silicols and **-silicones** (MARTIN), P., 326.
Dispersion. See under Photochemistry.

E.

ELECTROCHEMISTRY:—
Electrochemistry of solutions in acetone (ROSHDESTWENSKY and LEWIS), T., 2094; P., 239.
Electrode, hydrogen, measurement of, in alcoholic hydrogen chloride (HARDMAN and LAPWORTH), T., 2249; P., 263.
Electrolytes, solubility of, in aqueous solutions (MASSON), T., 103.
strong, dissociation of (KENDALL), P., 255.
Electrolytic reduction (LAW), T., 1544; P., 162.
of unsaturated aldehydes and ketones (LAW), T., 1016; P., 98.
of benzylidene bases (LAW), T., 154.
Electromotive force, measurement of, in alcohol (HARDMAN and LAPWORTH), T., 2249; P., 263.
Epiborneol, $C_{10}H_{18}O$.
Epicamphor, $C_{10}H_{16}O$.
Ergot, yellow colouring matters from (FREEBORN), P., 71.
Eserine blue, $C_{17}H_{22}O_2N_3$.
Eseroline, $C_{13}H_{18}ON_2$.
Ethers and alcohols, viscosity of mixtures of (BAKER), T., 1409; P., 165.
Euonymol, $C_{21}H_{30}O_4$.
Euonymus atropurpureus, chemical examination of the bark of (ROGERSON), T., 1040; P., 138.
Euonysterol, $C_{31}H_{52}O_2$.

F.

Ferricyanides, alkylation of (HARTLEY), T., 705; P. 101.
Ferrocyanides, metallic hydrogen (WILLIAMS), P., 317.
alkylation of (HARTLEY), T., 705; P., 101.
Flavone group, ethylation in the (PERKIN), P., 328.
Fluorescence, theory of (BALY and KRULLA), T., 1469; P., 196; (MACBETH), P., 271.

G.

Gas, electrolytic, ignition of, by the electric discharge (COWARD, COOPER and WARBURTON), T., 2278; P., 268.
Gases, solubility of, in water, influence of colloid and fine suspensions on (FINDLAY and SHEN), T., 1459; P., 195.
Glucosides, amino-, synthetic (IRVINE and HYND), P., 319.
Glutaconic acids, chemistry of the (BLAND and THORPE), T., 856, 871, 1557, 1739; P., 49, 56, 70, 217, 218; (THORPE), P., 51.
Glycide ethers (MARLE), T., 305; P., 5.
Glycogen, preparation of, from yeast (HARDEN and YOUNG), T., 1928; P., 235.
Glycols, optically active (MCKENZIE and MARTIN), P., 326.
β-**Gnoscopine**, $C_{22}H_{23}O_7$.
Grignard reagents, action of, on esters of dibasic acids (HEWITT and STEINBERG), P., 140.
use of, in the quantitative estimation of hydroxy-, amino-, and imino-derivatives of organic compounds (HIBBERT), T., 328.

H.

Halogen derivatives, refraction constant of (SCHWERS), P., 246.
Halogens, reactivity of, in organic compounds (SENTER and WARD), T., 2534; P., 293.
absorption of, by dry slaked lime (WILKS), T., 366.
action of, on silver salts (TAYLOR), P., 314.
action of, on silver salts and on potassium cyanate in presence of water (NORMAND and CUMMING), T., 1852; P., 225.
*iso*Harman, $C_{12}H_{10}N_2$.
Harmine, $C_{13}H_{12}ON_2$.
Heat of vaporisation. See under Thermochemistry.
Homo-euonysterol, $C_{40}H_{70}O_2$.
Homotaraxasterol, $C_{25}H_{40}O$.
Hydantoins, isothio-, substituted (DIXON and TAYLOR), T., 558; P., 54.
Hydrazine hydrate, action of ethylene oxide on (BARNETT), P., 259.
hydriodide, compound of thiocarbamide and (ATKINS and WERNER), T., 1989.
Hydrogen, solubility of, in water containing colloids (FINDLAY and SHEN), T., 1459; P., 195.
electrode. See Electrode under Electrochemistry.

Hydrogen ion, velocity of the (KENDALL), T., 1275; P., 158.
Hydroxy-acids, racemisation of, by heat (JAMES and JONES), T., 1158; P., 143.
fatty (FENTON and WILKS), T., 1570; P., 187.
Hydroxylamine hydriodide, compound of thiocarbamide and (ATKINS and WERNER), T., 1989.
Hypochlorites. See under Chlorine.

I.

Imino-compounds, formation and reactions of (THORPE), T., 249; P., 4.
Iodic acid. See under Iodine.
Iodine, blue absorption compounds of (BARGER and FIELD), T., 1394; P., 157.
catalytic action of acetone and (DAWSON and POWIS), T., 1503; P., 159.
interaction of thiocarbamide and (WERNER), T., 2166; P., 240.
Iodic acid, velocity of interaction of sulphurous acid and (PATTERSON and FORSYTH), T., 40.
Ipomœa orizabensis, chemical examination of the root of (POWER and ROGERSON), T., 1.
Ipuranol, $C_{29}H_{50}O_5$.
Iron, porosity of, and its relation of passivity and corrosion (FRIEND), T., 50.
rusting of (LAMBERT), T., 2056; P., 197.
Isomerism, dynamic (GLOVER and LOWRY), T., 1902; P., 185; (LOWRY and GLOVER), P., 186.
position, and optical activity (FRANKLAND, CARTER and ADAMS), T., 2470; P., 292.

K.

1:3-Keto-enolic ethers, preparation of (ABELL), T., 989; P., 145.
Ketones, absorption spectra of (PURVIS and MCCLELAND), T., 1810; P., 233.
fatty, conditions of isodynamic change in (DAWSON and POWIS), T., 1503; P., 159.
cyclic (RUHEMANN), T., 1729; P., 224; (RUHEMANN and LEVY), T., 2542; P., 316.
unsaturated, electrolytic reduction of (LOW), T., 1016; P., 98.
Ketonic acids, formation and hydrolysis of esters of (SUDBOROUGH), T., 1227; P., 93.

L.

Lead thiosulphate, precipitation of, and its action with boiling water (PERKINS and KING), P., 315.
Lecture experiments, time reactions suitable for (GLENDINNING and STEWART), P., 254.
Leucoemeraldine, $C_{48}H_{42}N_8$.
Lime, slaked. See Calcium hydroxide.
Liquids, mixed, latent heats of vaporisation of (TYRER), T., 81, 1104; P., 128.

M.

Magnetic rotation. See under Photochemistry.
Manganese *tri*oxide (LANKSHEAR), P., 198.
Permanganates, absorption spectra of (HARTLEY), T., 826; P., 109.
Memorial lecture, Becquerel (LODGE), T., 2005.
Cannizzaro (TILDEN), T., 1677.
Moissan (RAMSAY), T., 477.
Mercurialkylammonium nitrites (RÂY, RAKSHIT and DATTA), T., 616; P., 41.
Mercurialkyl- and alkylaryl-ammonium chlorides (RÂY and DHAR), P., 292.
nitrites (RÂY, DHAR and DE), T., 1552; P., 185.
Mercury, boiling point of (HEYCOCK and LAMPLOUGH), P., 3.
Mercuric nitrite, molecular conductivity of (RÂY and DHAR), T., 965; P., 102.
Metallic ions, relation between the absorption spectra of, and their valency (CRYMBLE), T., 266.
salts, absorption spectra of solutions of (HARTLEY), T., 820; P., 109.
Metals, wet oxidation of (LAMBERT), T., 2056; P., 197.
Mixtures, binary, magnetic rotation of (SCHWERS), P., 294.
Molecular refraction and rotation. See under Photochemistry.
Molecules, possible limit to the magnitude of (CROMPTON), P., 193.

N.

Naphthalene derivatives, absorption spectra of (PURVIS), T., 1315; P., 157.
*iso***Narcotine**, $C_{22}H_{23}O_7N$.
Natin (BHADURI), P., 53.
Neon, formation of, in radioactive change (RAMSAY), T., 1367; P., 182.
Nitric acid. See under Nitrogen.
Nitroamides, aromatic, absorption spectra of (MORGAN, JOBLING and BARNETT), T., 1209; P., 152.

Nitroamines, aromatic, absorption spectra of (MORGAN, JOBLING and BARNETT), T., 1209; P., 152.
primary fatty, absorption spectra of the cobalto-derivatives of (FRANCHIMONT and BACKER), T., 2256; P., 264.
o-**Nitroamines**, quinonoid salts of, and their conversion into oxadiazole oxides (GREEN and ROWE), T., 2452; P., 252.
Nitro-compounds, absorption spectra of (HEWITT, POPE and WILLETT), T., 1770; P., 230.
Nitrogen, atmospheric, oxidation of, in presence of ozone (LOWRY), T., 1152; P., 64.
asymmetric quinquevalent compounds of (POPE and READ), T., 519; P., 49.
trioxide and *tetroxide*, change in the boiling point of, on drying (H. B. and M. BAKER), T., 2339; P., 282.
Nitric acid, decomposition of, by light (REYNOLDS and TAYLOR), T., 131.
Nitrous acid, interaction of azoimide and (WERNER), P., 257.
Nitrites, molecular conductivity and ionisation of (RÂY and DHAR), P., 319.
Nitrogen organic compounds, tervalent, viscosity of (MUSSELL, THOLE and DUNSTAN), T., 1008; P., 70.
Nitrohydrazo-compounds, alkaline condensations of (GREEN and ROWE), T., 2003, 2443; P., 233, 251.
Nor-atropine, $C_{16}H_{21}O_3N$.
Norharmine, $C_{12}H_{10}ON_2$.
Nor-hyoscyamine, $C_{16}H_{21}O_3N$.
Nycanthin, $C_{15}H_{18}O_3$.

O.

Obituary notices:—
John Attfield, T., 688.
John Muter, T., 691.
Walthère Victor Spring, T., 692.
Nevil Story-Maskelyne, T., 696.
Louis Joseph Troost, T., 703.
Optical activity and position isomerism (FRANKLAND, CARTER and ADAMS), T., 2470; P., 292.
inversion, Walden's (MCKENZIE and CLOUGH), T., 390; P., 40.
Optically active compounds, effect of solvents on the rotation of (PATTERSON and STEVENSON), T., 241; P., 8; (PATTERSON and ANDERSON), T., 1833; P., 224.
relation between temperature and rotation of (PATTERSON), P., 324.
Organic compounds, determination of the relative reactivity of (HIBBERT), T., 341.
reactivity of the halogens in (SENTER and WARD), T., 2534; P., 293.
influence of unsaturation on the absorptive power of (MACBETH, STEWART and WRIGHT), T., 599; P., 71.
influence of three- and four-membered carbon rings on the refractive and dispersive power of (ÖSTLING), T., 457.
containing two benzene nuclei, absorption spectra of (PURVIS and MCCLELAND), T., 1514; P., 188.
estimation of hydroxy-, amino-, and imino-derivatives of, by the Grignard reagent (HIBBERT), T., 328.
Oxonitin, $C_{23}H_{29}O_9N$.
Oxydases, action of, on tyrosine derivatives (FUNK), T., 1004; P., 140.
Ozone, action of, on cellulose (CUNNINGHAM and DORÉE), T., 497; P., 38.

P.

Permanganates. See under Manganese.
Petroleum, estimation of sulphur in (SANDERS), T., 358.
Phenols, migration of the *p*-halogen atom in (ROBERTSON and BRISCOE), T., 1964; P., 219.
iodo-, chlorination of (BRAZIER and MCCOMBIE), T., 968; P., 127.
Phlobaphen from santalin (CAIN and SIMONSEN), T., 1063; P., 140.
Phosphonium compounds (POPE and GIBSON), T., 735; P., 108.
Phosphorus, reaction of, with potassium hydroxide solution (BANERJEE), P., 50.
PHOTOCHEMISTRY:—
Radioactivity, discovery of, and its influence on the course of physical science (LODGE), T., 2006.
Refraction and dispersion of triazo-compounds (PHILIP), T., 1866; P., 226.
constant of halogen derivatives (SCHWERS), P., 246.
constants, use of carbon disulphide as a solvent in determining (SCHWERS), T., 1889; P., 239.
Molecular refraction, influence of three- and four-membered carbon rings on the, of organic compounds (ÖSTLING), T., 457.
Refractivity of aliphatic sulphur compounds (PRICE and TWISS), T., 1259; P., 159.
Dispersion and refraction of triazo-compounds (PHILIP), T., 1866; P., 226.

PHOTOCHEMISTRY :—
Rotation of optically active compounds, effect of solvents on (PATTERSON and STEVENSON), T., 241 ; P., 8 ; (PATTERSON and ANDERSON), T., 1833 ; P., 224.
relation between temperature and (PATTERSON), P., 324.
Magnetic rotation of binary mixtures (SCHWERS), P., 294.
Molecular rotation in normal homologous series (HILDITCH), T., 192 ; (CHRISTOPHER and HILDITCH), T., 202.
Rotatory power and chemical constitution (PICKARD and KENYON), T., 620, 1427 ; P., 42, 137 ; (POPE and WINMILL), T., 2309 ; P., 275.
Spectra, absorption, and chemical reactivity (BALY and RICE), T., 1475 ; P., 197, 312.
photography of (MERTON), P., 325.
of metallic ions, relation between, and their valency (CRYMBLE), T., 266.
of solutions of metallic salts (HARTLEY), T., 820 ; P., 109.
of aldehydes and ketones (PURVIS and MCCLELAND), T., 1810 ; P., 233.
of the cobalto-derivatives of primary aliphatic nitroamines (FRANCHIMONT and BACKER), T., 2256 ; P., 264.
of aromatic nitroamines and nitroamides (MORGAN, JOBLING and BARNETT), T., 1209 ; P., 152.
of nitro-compounds (HEWITT, POPE and WILLETT), T., 1770 ; P., 230.
of organic compounds containing two benzene nuclei (PURVIS and MCCLELAND), T., 1514 ; P., 188.
Photophosphorescence of inorganic solid solutions (LANDAU), P., 2.
Phototropy and thermotropy (SENIER, SHEPHEARD and CLARKE), T., 1950 ; P., 236.
Physostigmine, $C_{15}H_{21}O_2N_3$.
Pilocarpus microphyllus, pilosine from (PYMAN), T., 2260 ; P., 267.
Pilocarpus racemosus, alkaloids of (JOWETT and PYMAN), P., 268.
Pilosine, $C_{16}H_{18}O_3N_2$.
Pilosinine, $C_9H_{12}O_2N_2$.
Platinocyanides, studies on (LEVY), T., 1081 ; P., 91.
Potassium, boiling point of (HEYCOCK and LAMPLOUGH), P., 3.
hydroxide, reactions of phosphorus with solutions of (BANERJEE), P., 50.
Potassium, nitrite and mercurinitrite, molecular conductivities of (RÂY and DHAR), T., 965 ; P., 102.
Purpurogallone, $C_{11}H_8O_5$.
*iso***Purpurogallone**, $C_{22}H_{14}O_{10}$.
Pyrogenic decompositions (SMITH and LEWCOCK), T., 1453 ; P., 152.
Pyronine colouring matters (CAIN and BRADY), T., 2304 ; P., 285.

Q.

Quinine, $C_{20}H_{24}O_2N_2$.
*iso***Quinoline derivatives** (PYMAN and REMFRY), T., 1595 ; P., 228.
isomerism and absorption spectra of (TINKLER), T., 1245 ; P., 161.
Quinone-ammonium derivatives (MELDOLA and HOLLELY), T., 912 ; P 128.
p-**Quinones**, action of semicarbazide hydrochloride on (HEILBRON and HENDERSON), P., 256.

R.

Racemic compounds, existence of, in the liquid state (THOLE), P., 286.
crystallography of, and their optically active components (JERUSALEM), T., 1268 ; P., 165.
Refractivity. See under Photochemistry.
Rhubarb, constituents of (TUTIN and CLEWER), P., 96.
Rotation and **Rotatory power**. See under Photochemistry.
Rubidium iodide, compound of, with thiocarbamide (ATKINS and WERNER), T., 1177 ; P., 141.
Rubrescerine, $C_{13}H_6O_2N_2$.

S.

Salts, hydrated, viscometric determination of transition points of (DUNSTAN and LANGTON), T., 418 ; P., 14.
Santalin, $C_{15}H_{14}O_5$.
Saponarin, $C_{21}H_{24}O_{12}$.
Satinwood, West Indian, constituents of (AULD and PICKLES), T., 1052 ; P., 143.
Scammony and its root, constituents of (POWER and ROGERSON), T., 398 ; P., 39.
Semicarbazones (HEILBRON and WILSON), T., 1482 ; P., 192.
Shomerajin (BHADURI), P., 53.
Silicon organic compounds (KIPPING), T., 2106, 2108, 2125 ; P., 243, 244 ; (ROBISON and KIPPING), T., 2142, 2156 ; P., 245.
Silver salts, action of halogens on (NORMAND and CUMMING), T., 1852 ; P., 225 ; (TAYLOR), P., 314.

Soap, constitution of, in solution (McBAIN, CORNISH and BOWDEN), T., 2042; P., 237.
Sodium, boiling point of (HEYCOCK and LAMPLOUGH), P., 3.
hypobromite, action of, on carbamide derivatives (LINCH), T., 1755; P., 144.
hypochlorite, photokinetics of solutions of (LEWIS), T., 2371; P., 288.
hyposulphite, action of copper sulphate on (FIRTH and MYERS), P., 101.
oxide, acetic anhydride and water, equilibrium in the system (DUNNINGHAM), T., 431; P., 16.
Solutions, electrochemistry of, in acetone (ROSHDESTWENSKY and LEWIS), T., 2094; P., 239.
solid inorganic, photophosphorescence of (LANDAU), P., 2.
Solvents, influence of, on the rotation of optically active compounds (PATTERSON and STEVENSON), T., 241; P., 8; (PATTERSON and ANDERSON), T., 1833; P., 224.
Spectra. See under Photochemistry.
Starch, blue compound of, with iodine (BARGER and FIELD), T., 1394; P., 157.
Stereochemical problems (FRANKLAND), T., 654.
Sulphonic acids, preparation and properties of esters of (FERNS and LAPWORTH), T., 273; P., 18.
Sulphonic esters, preparation and properties of (FERNS and LAPWORTH), P., 263.
Sulphoxylic acids, reactions of (MAY and SMILES), P., 329.
Sulphur, action of, on amines (HODGSON), T., 1693; P., 222.
oxidation of benzyl compounds of (SMYTHE), T., 2076; P., 242.
Sulphurous acid, velocity of interaction of iodic acid and (PATTERSON and FORSYTH), T., 40.
Sulphur organic compounds, aliphatic, refractivity of (PRICE and TWISS), T., 1259; P., 159.
Sulphur, estimation of, in petroleum (SANDERS), T., 358.
Sulphurous acid. See under Sulphur.

T.

Taraxacum, constituents of the root of (POWER and BROWNING), T., 2411; P., 285.
Taraxasterol, $C_{29}H_{48}O$.
Temperature. See under Thermochemistry.
Terpene alcohols, catalytic action of copper at 300° on (NEAVE), T., 513; P., 53.
Terpenes, chemistry of the (HENDERSON and CAW), T., 1416; P., 187; (HENDERSON and SUTHERLAND), T., 2288; P., 270; (HENDERSON and SCHOTZ), T., 2563; P., 314.
Tetrahydro-oxazoles, formation of (CROWTHER and McCOMBIE), P., 315.
Thallium, production of a steady flame of (LOWRY), P., 65.
THERMOCHEMISTRY:—
Heat of vaporisation, latent, of mixed liquids (TYRER), T., 81, 1104; P., 128.
Temperature, relation between rotation of optically active substances and (PATTERSON), P., 324.
Thermostat, vapour (FLETCHER and TYRER), P., 189.
Thermostat. See under Thermochemistry.
Thermotropy and phototropy (SENIER, SHEPHEARD and CLARKE), T., 1950; P., 236.
Thiocarbamides, constitution and reactions of (DIXON and TAYLOR), T., 2502; P., 265.
Time reactions, suitable for lecture experiments (GLENDINNING and STEWART), P. 254.
Tin organic compounds in relation to the corresponding silicon compounds (SMITH and KIPPING), T., 2553; P., 313.
Tin, estimation of (M. N. and S. C. BANERJEE), P., 102.
Transition points, viscometric determination of (DUNSTAN and LANGTON), T., 418; P., 14.
Triazo-compounds, refraction and dispersion of (PHILIP), T., 1866; P., 226.
Triazo-group (FORSTER and WITHERS), T., 489; P., 50; (FORSTER and SCHAEPPI), T., 1359; P., 219.
Tyrosine derivatives, action of oxydases on (FUNK), T., 1004; P., 140.

U.

Unsaturated centres, influence of, on the absorptive power of organic compounds (MACBETH, STEWART and WRIGHT), T., 599; P., 71.

V.

Vanadium organic compounds (MORGAN and MOSS), P., 199, 325.

Vapour pressure, determination of molecular weights from lowering of (WRIGHT), P., 96.
Velocity of hydrolysis and **of reaction**. See under Affinity, Chemical.
Vernonia anthelmintica, constituents of (BHADURI), P., 53.
Viscosity and association (THOLE), T., 552; P., 51, 286.
and chemical constitution (DUNSTAN and THOLE: DUNSTAN, HILDITCH and THOLE), P., 269.
of ether-alcohol mixtures (BAKER), T., 1409; P., 165.

W.

Walden inversion (MCKENZIE and CLOUGH), T., 390; P., 40.
Water, continuous fractional distillation of (BOUSFIELD), T., 1443; P., 186.
Conductivity water, preparation of (THOLE), T., 207; P., 3.
Spring and mineral waters, thermal, of Bath, analysis of (MASSON and RAMSAY), T., 1370; P., 183.
Weights, molecular, determination of, from lowering of vapour pressure (WRIGHT), P., 96.

X.

Xylenols, bromo- (CROSSLEY and SMITH), P., 332.

Y.

Yeast, preparation of glycogen and yeast-gum from (HARDEN and YOUNG), T., 1928; P., 235.
Yeast-gum, preparation of, from yeast (HARDEN and YOUNG), T., 1928; P., 235.

Z.

Zinc, boiling point of (HEYCOCK and LAMPLOUGH), P., 3.

FORMULA INDEX.

THE following index of organic compounds of known empirical formula is arranged according to Richter's system (see *Lexikon der Kohlenstoff-Verbindungen*).

The elements are given in the order C, H, O, N, Cl, Br, I, F, S, P, and the remainder alphabetically.

The compounds are arranged—

Firstly, in groups according to the number of carbon atoms (thus C_1 group, C_2 group, etc.).

Secondly, according to the number of other elements besides carbon contained in the molecule (thus 5 IV indicates that the molecule contains five carbon atoms and four other elements).

Thirdly, according to the nature of the elements present in the molecule (given in the above order).

Fourthly, according to the number of atoms of each single element (except carbon) present in the molecule.

Salts are placed with the compounds from which they are derived. The chlorides, bromides, iodides and cyanides of quaternary ammonium bases, however, are registered as group-substances.

C_1 Group.

CH_4 Methane, equilibrium of the formation of (PRING and FAIRLIE), T., 91.

CO_2 Carbon dioxide, solubility of, in water containing colloids (FINDLAY and SHEN), T., 1459; P., 195; rate of reduction of, by carbon (RHEAD and WHEELER), T., 831; P., 104.

CCl_4 Carbon tetrachloride, properties of mixtures of ethyl alcohol, water and (HILL), T., 2467; P., 290.

CS_2 Carbon disulphide, use of, as a solvent in determining refraction constants (SCHWERS), T., 1889; P., 239.

1 II

$CHCl_3$ Chloroform, latent heat of, and of its mixture with benzene (FLETCHER and TYRER), P., 319.

CH_2O_3 Carbonic acid, neutralisation of (MCBAIN), T., 814; P., 106.

CH_4O Methyl alcohol, sodium compound, action of, on 2:3:4:5-tetrachloropyridine (SELL), T., 1193, 1945; P., 165, 234.

CH_6N_4 Aminoguanidine, compound of thiocarbamide and the hydriodide of (ATKINS and WERNER), T., 1989.

1 III

CHON Cyanic acid, decomposition of, in aqueous solution (NORMAND and CUMMING), T., 1852; P., 225; ammonium salt, transformation of, into carbamide (CHATTAWAY), T., 170; potassium salt, action of halogens on (NORMAND and CUMMING), T., 1852; P., 225.

CHNS Thiocyanic acid, ammonium salt, isomerism of thiocarbamide and (ATKINS and WERNER), T., 1167; P., 141; influence of salts on the isomerism of thiocarbamide and (ATKINS and WERNER), T., 1982; P., 233; potassium salt, compound of thiocarbamide and (ATKINS and WERNER), T., 1178; P., 141.

CH_4ON_2 Carbamide, transformation of ammonium cyanate into (CHATTAWAY), T., 170; action of sodium hypobromite on derivatives of (LINCH), T., 1755; P., 144.

CH_4N_2S Thiocarbamide, isomerism of ammonium thiocyanate and (ATKINS and WERNER), T., 1167; P., 141; influence of salts on the isomerism of ammonium thiocyanate and (ATKINS and WERNER), T., 1982; P., 233; action of iodine on (WERNER), T., 2166; P., 240; action of nitrous acid on (WERNER), T., 2180; P., 241; additive compounds of saline iodides and (ATKINS and WERNER), T., 1989; P., 234; compounds of, with rubidium and cæsium iodides and potassium thiocyanate (ATKINS and WERNER), T., 1177; P., 141.

CH_3O_4P Hydroxymethylphosphinic acid, and its salts (PAGE), T., 428; P., 39.

CH_7ON_3 Semicarbazide, action of the hydrochloride of, on *p*-quinones (HEILBRON and HENDERSON), P., 256.

1 IV

$CH_2ON_2Cl_2$ Dichlorocarbamide, formation of, and its behaviour with amines (DATTA), T., 166.

C_2 Group.

C_2I_2 Di-iodoacetylene, preparation of, and its reaction with organic sodio-derivatives (THOMPSON), P., 146.

2 II

$C_2H_2O_4$ Oxalic acid, solubility of, in other acids (MASSON), T., 103.

C_2H_4O Ethylene oxide, action of, on hydrazine hydrate (BARNETT), P., 259.

$C_2H_4O_2$ Acetic acid, density of (BOUSFIELD and LOWRY), P., 72.

C_2H_6O Ethyl alcohol, properties of mixtures of carbon tetrachloride, water and (HILL), T., 2467; P., 290.

$C_2H_8N_2$ Ethylenediamine, mercuric nitrite (RÂY, DHAR and DE), T., 1552.

2 III

C_2HOCl_3 Chloral, action of, on ethyl tartrate and on ethyl malate (PATTERSON and MCMILLAN), T., 788; P., 101.

$C_2H_2O_2N_4$ 3:6-Diketo-1:2:3:6-tetrahydro-1:2:4:5-tetrazine (LINCH), T., 1757; P., 144.

$C_2H_2O_2S_2$ Dithiooxalic acid, complex salts of (ROBINSON and JONES), T., 62.

$C_2H_3O_2Cl$ Chloroacetic acid, potassium salt, velocity of reaction of aliphatic amines with (MOORE, SOMERVELL and DERRY), T., 2459; P., 278.

$C_2H_3O_2Br$ Bromoacetic acid, sodium salt, hydrolysis of (SENTER and WARD), T., 2534; P., 293.

$C_2H_6N_4S_2$ Formamidine disulphide, preparation of, and its salts (WERNER), T., 2176; P., 240; action of nitrous acid on (WERNER), T., 2180; P., 241.

$C_2H_8ON_2$ β-Hydroxyethylhydrazine (BARNETT), P., 259.

2 IV

$C_2H_6O_3N_4S_2$ Hydrazodicarbonthiamidesulphonic acid (+ H_2O), and its silver salt (LINCH), T., 1758.

C_3 Group.

$C_3H_4N_6$ αγ-Bistriazopropylene (FORSTER and WITHERS), T., 495; P., 50.

C_3H_6O Allyl alcohol, properties of mixtures of water and (WALLACE and ATKINS), T., 1179; P., 141; properties of mixtures of water, benzene, and (WALLACE and ATKINS), T., 1958; P., 231.

Acetone, electrochemistry of solutions in (ROSHDESTWENSKY and LEWIS), T., 2094; P., 239; catalytic action between iodine and (DAWSON and POWIS), T., 1503; P., 159.

C_3H_7N Allylamine, nitrite of (RÂY and DATTA), P., 258.

$C_3H_8N_4$ β- and γ-Triazopropylamine (FORSTER and WITHERS), T., 491; P., 50.

C_3H_9N Propylamine, nitrite of (RÂY and RAKSHIT), T., 141; salts of, with dibromosuccinic acid and bromomaleic acid (FRANKLAND and SMITH), T., 57.

3 III

$C_3H_4O_2S_2$ Dithiomalonic acid, metallic salts of (Jones and Robinson), T., 935; P., 129.

$C_3H_5N_6Cl$ $\alpha\gamma$-Bistriazo-β-chloropropane (Forster and Withers), T., 494; P., 50.

$\alpha\beta$-Bistriazo-γ-chloropropane (Forster and Withers), T., 496; P., 50.

$C_3H_6ON_6$ $\alpha\gamma$-Bistriazo-*n*- and *iso*-propyl alcohols (Forster and Withers), T., 493; P., 50.

3 IV

$C_3H_6ON_3Cl$ α-Triazo-γ-chloro*iso*propyl alcohol (Forster and Withers), T., 494.

C_4 Group.

$C_4H_6O_3$ Acetic anhydride, preparation of pure, and its properties (Orton and Jones), T., 1720; P., 222; hydrolysis of (Orton and Jones), T., 1708; P., 221; (Philip), P., 259; equilibrium of, with sodium oxide and water (Dunningham), T., 431; P., 16.

$C_4H_8O_2$ Ethyl acetate, physical properties of (Wade and Merriman), T., 2429, 2438; P., 246.

Propylenemethylal (Clarke), T., 1804.

$C_4H_8O_4$ Glycollaldehyde, bimolecular (McCleland), P., 247.

$C_4H_{10}N_2$ Piperazine, mercurinitrite of (Rây, Rakshit and Datta), T., 620; P., 41.

$C_4H_{11}N$ Diethylamine, nitrite of (Rây and Rakshit), T., 612; P., 41.

n-Butylamine, nitrite of (Rây and Rakshit), T., 142.

*iso*Butylamine, nitrite of (Rây and Rakshit), T., 612; P., 41; mercurinitrite of (+ H_2O) (Rây, Rakshit and Datta), T., 618; P., 41.

sec.-Butylamine, and its salts, resolution of, into optically active components (Pope and Gibson), T., 1702; P., 220.

4 III

$C_4H_3O_4Br$ Bromomaleic acid, propylamine salt (Frankland and Smith), T., 57.

$C_4H_4ON_2$ 4(or 5)-Glyoxalineformaldehyde, and its salts (Pyman), T., 542; P., 48.

$C_4H_4O_4Br_2$ *s*-Dibromosuccinic acid, action of aliphatic amines on, and its salts (Frankland and Smith), T., 57, 1724; P., 224.

Dibromosuccinic acids, configuration of the isomeric (McKenzie), T., 1196; P., 160.

$C_4H_6O_4N_4$ Oxalylbismethylnitrosoamide (Backer), T., 594; P., 65.

$C_4H_8ON_2$ Substance, from β-hydroxyethylhydrazine and formaldehyde (Barnett), P., 259.

C_4H_8OS 1:4-Thioxan, and its mercurichloride (Clarke), T., 1806.

$C_4H_9ON_3$ Diacetylhydrazoxime (Forster and Dey), T., 2238; P., 275.

Nitrosopiperazine, nitrite of (Rây and Rakshit), P., 102.

$C_4H_5ON_5$ γ-Triazopropylcarbamide (Forster and Withers), T., 492.

$C_4H_{10}OS$ Methyl β-methoxyethyl sulphide, and its mercurichloride (Clarke), T., 1806.

$C_4H_{11}O_2N_3$ Semicarbazone of 2-hydroxymethylene-1-hydrindone (Ruhemann and Levy), T., 2548.

4 IV

$C_4H_2O_4S_4Ni$ Nickelodithiooxalic acid (+ $4H_2O$) (Jones and Robinson), T., 932; P., 129.

$C_4H_2O_4S_4Pd$ Palladiodithiooxalic acid (Jones and Robinson), T., 932; P., 129.

C_5 Group

$C_5H_4O_3$ 6-Hydroxy-α-pyrone (BLAND and THORPE), T., 863.

Furan-β-carboxylic acid, and its silver salt (ROGERSON), T., 1044; P., 138.

C_5H_5N Pyridine, compounds of thiocarbamide and salts of (ATKINS and WERNER), T., 1989; ethionitrite of (NEOGI), T., 1611; mercurinitrite of (RÂY, RAKSHIT and DATTA), T., 619; P., 41.

$C_5H_9N_3$ 4(or 5)-β-Aminoethylglyoxaline, and its salts (PYMAN), T., 543; P., 48.

4-Amino-3:5-dimethylpyrazole (MORGAN and REILLY), P., 334.

$C_5H_{11}N$ Piperidine, ethonitrite of (NEOGI), T., 1611; P., 53.

$C_5H_{12}O$ *d*- and *l*-Methyl*iso*propylcarbinol, and their derivatives (PICKARD and KENYON), T., 630.

$C_5H_{12}O_4$ Pentaerythritol, condensation of, with aldehydes (READ), T., 2090; P., 240.

5 III

C_5HNCl_4 2:3:4:5-Tetrachloropyridine, action of sodium methoxide on (SELL), T., 1945.

$C_5H_3O_2Cl$ 6-Chloro-α-pyrone (BLAND and THORPE), T., 863.

$C_5H_4O_5N_2$ Glyoxalone-4:5-dicarboxylic acid (FENTON and WILKS), T., 1581.

$C_5H_{11}NS$ 4-Methyl-1:4-thiazan, and its salts (CLARKE), T., 1586; P., 218.

$C_5H_{12}Cl_2Sn$ Ethylpropylstannic chloride (SMITH and KIPPING), T., 2563; P., 314.

$C_5H_{13}ON$ Methyl dimethylaminoethyl ether, and its picrate (CLARKE), T., 1808.

5 IV

$C_5H_3O_2NCl_2$ 3:5-Dichloro-2:4-dihydroxypyridine, and its salts (SELL), T. 1947.

C_6 Group.

C_6H_6 Benzene, latent heat of, and of its mixture with chloroform (FLETCHER and TYRER), P., 319; pyrogenic decomposition of (SMITH and LEWCOCK), T., 1453; P., 152; properties of mixtures of allyl alcohol, water, and (WALLACE and ATKINS) T., 1958; P., 231.

6 II

$C_6H_4O_3$ Furan-2:5-dialdehyde (COOPER and NUTTALL), T., 1074; P., 139.

$C_6H_4O_5$ 2-Hydroxy-5-keto-2:5-dihydrofurfurylidene-4-acetic acid (BLAND and THORPE), T., 1494; P., 195.

$C_6H_6O_3$ 6-Hydroxy-4-methyl-α-pyrone, and its salts (BLAND and THORPE), T., 865.

Methyl furan-β-carboxylate (ROGERSON), T., 1045.

$C_6H_6O_6$ Aconitic acids, chemistry of the (BLAND and THORPE), T., 1490; P., 195.

C_6H_7N Aniline, mercurinitrite of (RÂY, RAKSHIT and DATTA), T., 618; P., 41.

$C_6H_{12}O_6$ Dextrose, conversion of *d*-glucosamine into (IRVINE and HYND), T., 1128; P., 54, 126.

Inositol, and its isomerides and salts (MÜLLER), T., 2383; P., 291.

$C_6H_{12}N_4$ Hexamethylenetetramine, mercuric nitrite (RÂY, DHAR and DE), T., 1552.

$C_6H_{14}O$ *d*-Ethyl*iso*propylcarbinol, and its derivatives (PICKARD and KENYON), T., 632.

$C_6H_{14}N_2$ α- and β-Dimethylpiperazines, absence of optical activity of, and their salts (POPE and READ), T., 2325; P., 278.

$C_6H_{15}N$ Triethylamine, nitrite of, and its decomposition and sublimation by heat (RÂY and RAKSHIT), T., 216.

Dipropylamine, nitrite of (RÂY and RAKSHIT), T., 613; P., 41.

6 III

$C_6H_3O_8N_3$ Styphnic acid, *d*- and *l*-methylethylphenacylthetine salts of (TAYLOR), T., 1126.

$C_6H_4OBr_2$ 2:4-, and 2:6-Dibromophenols (POPE and WOOD), T., 1823; P., 225.

$C_6H_4N_2Cl_2$ *p*-Chlorobenzenediazonium chloride, compound of, with antimony trichloride (MAY), T., 1038.

$C_6H_4N_3I$ 1:2-, 1:3-, and 1:4-Triazoiodobenzene (FORSTER and SCHAEPPI), T., 1361.

$C_6H_4N_6Fe$ Ferrocyanic acid, metallic hydrogen salts (WILLIAMS), P., 317.

$C_6H_5O_2Cl$ 6-Chloro-4-methyl-α-pyrone (BLAND and THORPE), T., 865.

$C_6H_5O_5N_3$ Picramic acid (4:6-*dinitro*-2-*aminophenol*), methylation of (MELDOLA and HOLLELY), T., 912; P., 128.

*iso*Picramic acid (2:6-*dinitro*-4-*aminophenol*), methylation of (MELDOLA and HOLLELY), T., 912; P., 128.

$C_6H_5N_2Cl$ Benzenediazonium chloride, compounds of, with antimony trichloride (MAY), T., 1038.

$C_6H_6O_3N_2$ Dioxime of furan-2:5-dialdehyde (COOPER and NUTTALL), T., 1079.

C_6H_6NCl *m*-Chloroaniline, effect of heat on a mixture of benzaldehydecyanohydrin and (BAILEY and MCCOMBIE), T., 2273; P., 266.

$C_6H_{10}O_4N_4$ Diacetohydrazodicarbonamide (LINCH), T., 1758.

Succinylbismethylnitrosoamide (BACKER), T., 597; P., 65.

$C_6H_{11}O_5Cl$ Inositolchlorohydrin (+ $2H_2O$), and its acetates (MÜLLER), T., 2397; P., 291.

$C_6H_{11}O_5Br$ Inositolbromohydrin (MÜLLER), T., 2398.

$C_6H_{13}O_5N$ Glucosamine, condensation of bromoacyl haloids with (HOPWOOD and WEIZMANN), P., 261.

d-Glucosamine, conversion of, into *d*-glucose (IRVINE and HYND), T., 1128; P., 54, 126.

$C_6H_{13}NS$ 4-Ethyl-1:4-thiazan, and its salts (CLARKE), T., 1587; P., 218.

6 IV

C_6HOCl_4I 2:3:5:6-Tetrachloro-4-iodophenol (BRAZIER and MCCOMBIE), T., 975.

$C_6H_2OCl_3I$ 2:3:6-Trichloro-4-iodophenol (BRAZIER and MCCOMBIE), T., 975.

$C_6H_3OCl_2I$ 2:6-Dichloro-4-iodophenol (BRAZIER and MCCOMBIE), T., 974.

C_6H_4OClI 2-Chloro-4-iodophenol (BRAZIER and MCCOMBIE), T., 973.

$C_6H_4ON_3I$ 1:2-, 1:3, and 1:4-Triazoiodosobenzene, and their salts (FORSTER and SCHAEPPI), T., 1363.

$C_6H_4O_2N_3Cl$ *m*-Nitrobenzenediazonium chloride, compound of, with antimony trichloride (MAY), T., 1039.

$C_6H_4O_2N_3I$ 1:2-, 1:3-, and 1:4-Triazoiodoxybenzene (FORSTER and SCHAEPPI), T., 1365.

$C_6H_4O_6N_5I$ 1:4-Triazoiodosobenzene nitrate (FORSTER and SCHAEPPI), T., 1364.

$C_6H_4N_3Cl_2I$ 1-Triazophenyl 2-, 3-, and 4-iodochloride (FORSTER and SCHAEPPI), T., 1362.

$C_6H_5O_2NCl_2$ 3:5-Dichloro-4-hydroxy-2-methoxypyridine, and its salts (SELL), T., 1948.

C_6H_6ONSb *m*-Antimonylaniline (MAY), T., 1035; P., 5.

$C_6H_6O_4S_4Ni$ Nickelodithiomalonic acid, salts of (JONES and ROBINSON), T., 937; P., 130.

$C_6H_6O_3S_4Pd$ Palladiodithiomalonic acid, salts of (JONES and ROBINSON), T., 938; P., 130.

$C_6H_7O_5N_3S$ *p*-Nitrophenylhydrazine-*o*-sulphonic acid, and its sodium salt (GREEN and ROWE), T., 2448.

6 V

$C_6H_6ONCl_2Sb$ Aminophenylstibinyl chloride, hydrochloride of (MAY), T., 1036; P., 5.

C_7 Group.

C_7H_5Cl Benzotrichloride, action of, on primary amides (TITHERLEY and HOLDEN), T., 1881; P., 227.

$C_7H_6O_2$ *p*-Hydroxyacetophenone, nitration of (POPE), P., 331.

C_7H_9N *m*-Toluidine, effect of heat on a mixture of benzaldehydecyanohydrin and (BAILEY and MCCOMBIE), T., 2272; P., 266.

p-Toluidine, mercurinitrite of (+ $4H_2O$) (RÂY, RAKSHIT and DATTA), T., 619; P., 41.

Benzylamine, mercurinitrite of (+ $4H_2O$), (RÂY, RAKSHIT and DATTA), T., 618; P., 41.

$C_7H_{10}O_2$ 5-Hydroxymethylene-3-methyl*cyclo*pentan-1-one, and its copper salt (RUHEMANN and LEVY), T., 2551.

$C_7H_{10}O_4$ $\alpha\beta$-Dimethylglutaconic acid, and its silver salt (BLAND and THORPE), T., 1567.

$C_7H_{10}O_6$ α- and β-Methyltricarballylic acids (HOPE), T., 902.

$C_7H_{12}O_4$ Diethyl malonate, condensation of ethyl citraconate with (HOPE), T., 892; P., 93.

$C_7H_{12}O_5$ Ethoxymethylsuccinic acid (HOPE), T., 907.

$C_7H_{14}O$ Di*iso*propyl ketone (PICKARD and KENYON), T., 629.

$C_7H_{16}O$ Propyl*iso*propylcarbinol, rotation and derivatives of (PICKARD and KENYON), T., 633.

7 III

$C_7H_6OBr_2$ 2:6-Dibromophenyl methyl ether (POPE and WOOD), T., 1828.

C_7H_7BrHg *p*-Tolylmercuric bromide (POPE and GIBSON), T., 736.

$C_7H_7N_2Cl$ *o*- and *p*-Toluenediazonium chlorides, compounds of, with antimony trichloride (MAY), T., 1038.

$C_7H_9O_4P$ α-Hydroxybenzylphosphinic acid, and its calcium salt (PAGE), T., 425.

C_7H_8BrAs Phenylmethylbromoarsine (WINMILL), T., 723.

$C_7H_9O_2P$ Phenylmethylphosphinic acid, alkaloidal salts of (POPE and GIBSON), T., 740; P., 109.

$C_7H_{10}O_4Br_2$ $\alpha\delta$-Dibromo-β-methyladipic acid (DAVIES, STEPHEN and WEIZMANN), P., 95.

$C_7H_{13}ON$ Ethylpyridinium hydroxide, salts of (FERNS and LAPWORTH), T., 281.

Nortropanol, and its salts (CARR and REYNOLDS), T., 957.

$C_7H_{13}ON_3$ Acetone derivative of diacetylhydrazoxime (FORSTER and DEY), T., 2240.

$C_7H_{14}NCl$ β-Chloroethylpiperidine, action of heat on (DUNLOP), T., 2000; P., 230.

$C_7H_{14}NI$ β-Iodoethylpiperidine, hydriodide of (DUNLOP), T., 2002.

$C_7H_{15}O_5N$ α-Aminomethylglucoside, and its salts (IRVINE and HYND), T., 1137.

$C_7H_{19}ON$ Methyltriethylammonium hydroxide, salts of (POPE and READ), T., 528.

7 IV

$C_7H_5O_2N_2Cl$ 6-Chloro-5-methoxybenz*iso*oxadiazole (*chloromethoxybenzfurazan*), (GREEN and ROWE), T., 2458.

$C_7H_5O_3N_2Cl$ 6-Chloro-5-methoxybenz*iso*oxadiazole oxide (GREEN and ROWE), T., 2457.

$C_7H_7O_2NCl_2$ 3:5-Dichloro-2:4-dimethoxypyridine (SELL), T., 1948.

$C_7H_7O_3N_2Cl$ Chloromethoxy-*o*-benzoquinonedioxime (GREEN and ROWE), T., 2457.

C_8 Group.

$C_8H_{10}O_3$ 6-Hydroxy-4-methyl-3-ethyl-α-pyrone (BLAND and THORPE), T., 1569.

$C_8H_{10}O_8$ Diacetyltartaric acid, conductivity and dissociation of (DEAKIN and RIVETT), T., 127.

$C_8H_{11}N$ Benzylmethylamine, mercurinitrite of (RÂY, RAKSHIT and DATTA), T., 619; P., 41.

$C_8H_{12}O_2$ Dimethyldihydroresorcinol, bromoxylenols from (CROSSLEY and SMITH), P., 332.

$C_8H_{12}O_4$ β-Methyl-α-ethylglutaconic acid, and its silver salt (BLAND and THORPE), T., 1569.

Lactone of hydroxy-αβ-dimethyladipic acid (HARDING), T., 1593.

Ethyl hydrogen β-methylglutaconate (BLAND and THORPE), T., 1566.

$C_8H_{14}O_5$ Ethyl malate, action of chloral on (PATTERSON and MCMILLAN), T., 788; P., 101.

$C_8H_{14}O_6$ Ethyl tartrate, influence of inorganic salts on the rotation of (PATTERSON and ANDERSON), T., 1833; P., 224; action of chloral on (PATTERSON and MCMILLAN), T., 788; P., 101.

$C_8H_{16}O$ *iso*Propyl *n*-butyl ketone (PICKARD and KENYON), T., 628.

$C_8H_{17}N$ Coniine, nitrite and methonitrite of (NEOGI), T., 1608; P., 53.

$C_8H_{18}O$ *iso*Propyl-*n*-butylcarbinol (PICKARD and KENYON), T., 629; resolution of, and its derivatives (PICKARD and KENYON), T., 634.

$C_8O_2Cl_6$ Tetrachlorophthalyl chloride, preparation of (MILLS and WATSON), P., 262.

8 III

$C_8H_4O_8Cl_3$ Di-trichloroacetyltartaric acid, temperature rotation curves of esters of (PATTERSON and DAVIDSON), T., 374; P., 43.

$C_8H_5O_4N$ 3-Nitrophthalic acid, formation of (DOBBIE, FOX and GAUGE), P., 327.

C_8H_6OS 3-Oxy-(1)-thionaphthen, syntheses of (HUTCHISON and SMILES), T., 570; P., 62.

$C_8H_6O_2Br_2$ 2:4-Dibromophenyl acetate (POPE and WOOD), T., 1825.

C_8H_7ON Benzaldehydecyanohydrin, effect of heat on a mixture of, with *m*-chloroaniline and *m*-toluidine (BAILEY and MCCOMBIE), T., 2272; P., 266.

$C_8H_7O_2I$ *p*-Iodophenyl acetate, preparation of (BRAZIER and MCCOMBIE), T., 972.

C_8H_8OBr 4:5-Dibromo-*o*-3-xylenol (CROSSLEY and SMITH), P., 333.

$C_8H_8OBr_2$ 2:4-, and 2:6-Dibromophenyl ethyl ethers (POPE and WOOD), T., 1825; P., 225.

$C_8H_9O_2N$ Anis*syn*aldoxime, transformation of, in various solvents (PATTERSON and MONTGOMERIE), T., 26, 2100; P., 240.

$C_8H_9O_3N$ 2-Amino-3-methoxybenzoic acid, and its salts (EWINS), T., 549.

$C_8H_9O_5N_3$ Dimethylpicramic acid (4:6-*dinitro*-2-*dimethylaminophenol*) (MELDOLA and HOLLELY), T., 923.

$C_8H_9O_5N_3$ Dimethyl*iso*picramic acid (MELDOLA and HOLLELY), T., 924.

$C_8H_{10}ON_2$ Benzylmethylnitrosoamine (RÂY and DATTA), P., 258.

$C_8H_{10}O_2N_2$ Lactone of α(β-hydroxyethyl) β-glyoxaline-4(or 5)-propionic acid, and its salts (PYMAN), T., 537 ; P., 47.

$C_8H_{10}ClAs$ Phenylethylchloroarsine (WINMILL), T., 720.

$C_8H_{10}BrAs$ Phenylethylbromoarsine (WINMILL), T., 720.

$C_8H_{11}Br_2As$ Phenyldimethylarsine dibromide (WINMILL), T., 723.

$C_8H_{11}Br_4As$ Phenyldimethylarsine tetrabromide (WINMILL), T., 723.

$C_8H_{12}O_2Si$ Phenylethylsilicanediol (ROBISON and KIPPING), T., 2158 ; P., 245.

$C_8H_{13}O_3N_3$ Diacetyl derivative of diacetylhydrazoxime (FORSTER and DEY), T., 2239.

$C_8H_{14}O_2N_4$ Azine of diacetyloxime (FORSTER and DEY), T., 2240.

$C_8H_{17}ON$ γ-Hydroxypropylpiperidine (DUNLOP), T., 2002 ; P., 230.

1:1-Trimethylenepiperidinium hydroxide, decomposition of, by heat, and its iodide (DUNLOP), T., 1998 ; P., 230.

$C_8H_{17}O_5N$ α-Methylaminomethylglucoside, and its silver iodide compound (IRVINE and HYND), T., 1141.

8 IV

$C_8H_3O_2Cl_4I$ 2:3:5:6-Tetrachloro-4-iodophenyl acetate (BRAZIER and MCCOMBIE), T., 976.

$C_8H_4O_2Cl_3I$ 2:3:6-Trichloro-4-iodophenyl acetate (BRAZIER and MCCOMBIE), T., 975.

$C_8H_4O_2Cl_5I$ 2:3:6-Trichloro-4-iodophenyl acetate dichloride (BRAZIER and MCCOMBIE), T., 975.

$C_8H_5O_2Cl_2I$ 2:6-Dichloro-4-iodophenyl acetate (BRAZIER and MCCOMBIE), T., 974.

$C_8H_5O_2Cl_4I$ 2:6-Dichloro-4-iodophenyl acetate dichloride (BRAZIER and MCCOMBIE), T., 974.

$C_8H_6O_2ClI$ 2-Chloro-4-iodophenyl acetate (BRAZIER and MCCOMBIE), T., 973.

$C_8H_6O_2Cl_3I$ 2-Chloro-4-iodophenyl acetate dichloride (BRAZIER and MCCOMBIE), T., 973.

$C_8H_7O_2N_2Cl$ 6-Chloro-5-ethoxybenz*iso*oxadiole, (*chloroethoxybenzfurazan*) (GREEN and ROWE), T., 2458.

$C_8H_7O_2Cl_3I$ *p*-Iodophenyl acetate iodochloride (BRAZIER and MCCOMBIE), T., 972.

$C_8H_7O_3N_2Cl$ 6-Chloro-5-ethoxybenz*iso*oxadiazole oxide (GREEN and ROWE), T., 2458.

$C_8H_9O_3N_2Cl$ Chloroethoxy-*o*-benzoquinonedioxime (GREEN and ROWE), T., 2458.

$C_8H_{10}O_3NCl$ Ethyl β-chloropropionylcyanoacetate (WEIZMANN, DAVIES and STEPHEN), P., 103.

$C_8H_{18}O_4N_3Hg_3$ Trimercuridibutylammonium nitrite (+ H_2O) (RÂY, RAKSHIT and DATTA), T., 617 ; P., 41.

C_9 Group.

$C_9H_6O_2$ 1:2-Diketohydrindene, preparation of (PERKIN, ROBERTS and ROBINSON), T., 232 ; P., 4.

C_9H_7N Quinoline, compounds of thiocarbamide and salts of (ATKINS and WERNER), T., 1989 ; mercurinitrite of (RÂY, RAKSHIT and DATTA), T., 620 ; P., 41.

$C_9H_8O_7$ *cyclo*Pentanone-2:5-dioxalic acid (RUHEMANN), T., 1733.

$C_9H_{10}O_5$ Lactone anhydride, from compound $C_9H_{12}O_6$ (HAWORTH and KING), T., 1981.

$C_9H_{12}O_2$ 6-Hydroxymethylene-1:3-dimethyl-Δ^3-*cyclo*hexen-5-one, and its copper salt (RUHEMANN and LEVY), T., 2551.

$C_9H_{12}O_4$ Ethyl *cyclo*pentanone-2-oxalate (RUHEMANN), T., 1732.

$C_9H_{12}O_6$ Lactonic acid, from camphenic acid, and its salts (HAWORTH and KING), T., 1980.

$C_9H_{13}N$ Benzylethylamine, nitrite of (RÂY and DATTA), P., 258; mercurinitrite of (RÂY, RAKSHIT and DATTA), T., 619; P., 41.

$C_9H_{14}O_4$ Lactone of β-hydroxy-$\alpha\alpha\beta$-trimethyladipic acid (HARDING), T., 1595.

Ethyl citraconate, condensation of ethyl sodiomalonate with (HOPE), T., 892; P., 93.

$C_9H_{16}O_5$ β-Hydroxy-$\alpha\alpha\beta$-trimethyladipic acid (HARDING), T., 1593.

$C_9H_{18}O$ Di-*n*-butyl ketone (PICKARD and KENYON), T., 629.

*iso*Propyl *n*-amyl ketone (PICKARD and KENYON), T., 629.

$C_9H_{18}O_2$ Glycol from ethyl pinate (ÖSTLING), T., 475.

$C_9H_{20}O$ *iso*Propyl-*n*-amylcarbinol, and its derivatives (PICKARD and KENYON), T., 629, 634.

$C_9H_{21}N$ Tripropylamine, nitrite of (RÂY and RAKSHIT), T., 613; P., 41; compound of thiocarbamide and the hydriodide of (ATKINS and WERNER), T., 1990.

Ethylpropyl*iso*butylamine, preparation of, and its platinichloride (POPE and READ), T., 523; P., 50.

9 III

$C_9H_3NCl_4$ 2:3:4:5-Tetrachloropyridine, action of sodium methoxide on (SELL), T., 1193; P., 165.

$C_9H_6O_3N_2$ Substance, from the action of nitrous acid on 3-aminocoumarin (LINCH), T., 1763; P., 231.

$C_9H_6O_4N_2$ 6-Nitrocoumarinoxime (CLAYTON and GODDEN), T., 213.

C_9H_7ON 6-Hydroxyquinoline, absorption spectrum of (DOBBIE and FOX), T., 77.

$C_9H_7O_2N$ 3-Aminocoumarin, and its salts (LINCH), T., 1762; P., 230.

$C_9H_7O_2Br_3$ *s*-Tribromophenyl glycide ether (MARLE), T., 307.

$C_9H_9O_3N$ Hippuric acid, detection of (HAAS), T., 1254; P., 163.

$C_9H_9O_3Br_3$ Glycerol *s*-tribromophenyl ether (MARLE), T., 311.

$C_9H_9O_4N$ α-Hydroxyhippuric acid, and its salts (HAAS), T., 1255; P., 163.

p-Nitrophenyl glycide ether (MARLE), T., 307.

$C_9H_{10}O_3N_2$ α-Hydroxyhippuramide (HAAS), T., 1258.

$C_9H_{11}ON$ 1-Hydroxy-2-hydrindamine, optically active and externally compensated, and their salts (POPE and READ), T., 758; P., 107.

$C_9H_{11}O_2N$ *d*- and *l*-α-Aminophenylpropionic acids (MCKENZIE and CLOUGH), T., 396.

$C_9H_{11}O_5N_3$ 2:6-, and 4:6-Dinitro-2-trimethylammonium-1-benzoquinones, and their salts (MELDOLA and HOLLELY), T., 925.

$C_9H_{12}O_2N_2$ Lactone of α(β-hydroxyethyl)β-1-methylglyoxaline-4(or 5)-propionic acid, and its picrate (PYMAN), T., 538.

Pilosinine, and its salts (PYMAN), T., 2270; P., 267.

$C_9H_{12}O_3N_2$ 2- and 3-Aminotyrosine (FUNK), T., 1004; P., 140.

$C_9H_{12}O_5N_2$ Ethyl glyoxalone-4:5-dicarboxylate (FENTON and WILKS), T., 1581.

$C_9H_{13}O_2N$ Ethyl γ-cyano-$\alpha\beta$-dimethylcrotonate (BLAND and THORPE), T., 888.

$C_9H_{13}O_3N$ Ethyl α-cyano-α-propionylpropionate (THORPE), T., 257.

$C_9H_{14}O_2N_2$ Ethyl β-imino-γ-cyano-α-methylvalerate (THORPE), T., 256.

$C_9H_{14}O_2Si$ Benzylethylsilicanediol (ROBISON and KIPPING), T., 2161; P., 245.

$C_9H_{16}O_2N_2$ Nitrosotriacetonamine, catalytic decomposition of, by alkalis (CLIBBENS and FRANCIS), T., 2358; P., 291.

$C_9H_{19}O_5N$ α-Dimethylaminomethyl glucoside (IRVINE and HYND), T., 1142.

$C_9H_{19}NS$ 4-*iso*Amyl-1:4-thiazan, and its salts (CLARKE), T., 1588; P., 218.

$C_9H_{22}NCl$ Dimethylpropyl*iso*butylammonium chloride, platinic chloride (POPE and READ), T., 528.

$C_9H_{22}NI$ Triethylpropylammonium iodide, compound of thiocarbamide (ATKINS and WERNER), T., 1990.

Dimethylpropyl*iso*butylammonium iodide (POPE and READ), T., 528.

9 IV

$C_9H_5O_3NS$ 6- and 8-Nitrothiocoumarins, and mercurichloride of the former (CLAYTON and GODDEN), T., 213; P., 6.

$C_9H_6O_2NBr$ 7-Bromo-3-aminocoumarin (LINCH), T., 1764; P., 231.

$C_9H_5O_2ClBr_3$ γ-Chloro-β-hydroxy-α-*s*-tribromophenoxypropane (MARLE), T., 313.

$C_9H_{10}O_4NCl$ γ-Chloro-β-hydroxy-α-*p*-nitrophenoxypropane (MARLE), T., 313.

$C_9H_{16}O_6NBr$ α-Bromopropionylglucosamine (HOPWOOD and WEIZMANN), P., 261.

9 V

$C_9H_{15}O_2NBrS$ Ethyl 4-bromo-4-methyl-1:4-thiazan-4-acetate (CLARKE), T., 1809.

C_{10} Group.

$C_{10}H_{16}$ Bornylene, pure, preparation of (HENDERSON and CAW), T., 1416; P., 187.

Camphene, constitution of (HAWORTH and KING), T., 1975; P., 236.

Pinene, oxidation of, with hydrogen peroxide (HENDERSON and SUTHERLAND), T., 2288; P., 270.

Menthadiene, from carvacrol (HENDERSON and SCHOTZ), T., 2563; P., 314.

10 II

$C_{10}H_6O_4$ Pyromellitic acid, preparation of (MILLS), T., 2193; P., 243.

$C_{10}H_6O_6$ Methylenedioxyphthalidecarboxylic acid (RUHEMANN), T., 783.

Triketomethylenedioxyhydrindene hydrate (RUHEMANN), T., 783.

$C_{10}H_7Br$ α-Bromonaphthalene, properties of (CRABTREE and LAPWORTH), P., 264.

$C_{10}H_8O_2$ 2-Hydroxymethylene-1-hydrindone (RUHEMANN and LEVY), T., 2546; P., 316.

$C_{10}H_{10}O_3$ 7-Methoxychromanone (PERKIN and ROBINSON), P., 7.

$C_{10}H_{10}O_4$ Acid, from *Cluytia similis* (TUTIN and CLEWER), T., 2223; P., 265.

Methyl 3:4-dihydroxycinnamate (POWER and ROGERSON), T., 6.

$C_{10}H_{12}O$ *ac*-Tetrahydro-2-naphthol, rotation of, and of its esters (PICKARD and KENYON), T., 1427; P., 137.

$C_{10}H_{12}O_2$ *m*-Tolyl glycide ether (MARLE), T., 307.

Durylic acid, preparation of, and its sodium salt (MILLS), T., 2191; P., 243.

$C_{10}H_{12}O_3$ Guaiacyl glycide ether (MARLE), T., 308.

$C_{10}H_{12}O_4$ β-*m*-Methoxyphenoxypropionic acid (PERKIN and ROBINSON), P., 7.

1:3-Dimethyl-Δ^3-*cyclo*hexen-5-one-6-oxalic acid (RUHEMANN), T., 1734.

$C_{10}H_{12}N_2$ 2-Phenyl-1:4:5:6-tetrahydropyrimidine, and its salts (BRANCH and TITHERLEY), T., 2342; P., 293.

$C_{10}H_{13}As$ Phenylmethylallylarsine (WINMILL), T., 724.

$C_{10}H_{14}O_3$ *C*-Acetyldimethyldihydroresorcin, and its silver salt (CROSSLEY and RENOUF), T., 1529; P., 223.

$C_{10}H_{14}O_4$ Ethyl 1-methyl*cyclo*pentan-3-one-4-oxalate (RUHEMANN), T., 1733.

Glycerol guaiacyl ether (MARLE), T., 312.

$C_{10}H_{16}O_2$ β-Hydroxycamphor (FORSTER and HOWARD), P., 313.

$C_{10}H_{16}O_4$ Ethyl β-methylglutaconate (BLAND and THORPE), T., 1565.

Camphenic acid, structure of (HAWORTH and KING), T., 1975; P., 236.

$C_{10}H_{16}O_5$ Ethyl ethoxyacetylacetoacetate (WEIZMANN, DAVIES and STEPHEN), P., 103.

$C_{10}H_{18}O$ Alcohol, from reduction of citral (LAW), T., 1025.

Epiborneol (BREDT and PERKIN), P., 57.

$C_{10}H_{20}O$ *iso*Propyl *n*-hexylketone (PICKARD and KENYON), T., 629.

Menthol, and its salts (PICKARD and LITTLEBURY), T., 109.

*neo*Menthol, and its salts (PICKARD and LITTLEBURY), T., 109.

$C_{10}H_{22}O$ *iso*Propyl-κ-hexylcarbinol, rotation and derivatives of (PICKARD and KENYON), T., 629, 636.

10 III

$C_{10}H_7N_2Cl$ α-, and β-Naphthalenediazonium chlorides, compounds of, with antimony trichloride (MAY), T., 1039.

$C_{10}H_9ON$ 6-Methoxyquinoline, absorption spectrum of (DOBBIE and FOX), T., 77.

$C_{10}H_9O_2N_3$ Semicarbazone of 1:2-diketohydrindene (PERKIN, ROBERTS and ROBINSON), T., 236.

$C_{10}H_9O_4I$ Dimethyl 3-iodophthalate (KENNER), P., 277.

$C_{10}H_{11}O_3N$ Benzoylalanine, resolution of, and its salts (POPE and GIBSON), T., 939; P., 126.

dl-, *d*-, and *l*-α-Formylaminophenylpropionic acids (MCKENZIE and CLOUGH), T, 394.

$C_{10}H_{11}O_3Cl$ ω-Chloro-2-hydroxy-4-methoxypropiophenone (PERKIN and ROBINSON), P., 8.

$C_{10}H_{11}O_4N$ Methyl α-hydroxyhippurate (HAAS), T., 1257.

$C_{10}H_{11}O_6N_3$ Acetyl derivative of dimethyl*iso*picramic acid (MELDOLA and HOLLELY), T., 924.

$C_{10}H_{12}O_2N_2$ *dl*- and *d*-1-Hydroxy-2-carbamidohydrindamine (POPE and READ), T., 763.

$C_{10}H_{13}ON$ 6- and 7-Hydroxy-2-methyltetrahydro*iso*quinolines (PYMAN and REMFRY), T., 1604; P., 228.

$C_{10}H_{13}ON_5$ 5-Phenyl-γ-triazopropylcarbamide (FORSTER and WITHERS), T., 492.

$C_{10}H_{13}O_2N$ 7:8-Dihydroxy-2-methyltetrahydro*iso*quinoline, hydrochloride of (PYMAN and REMFRY), T., 1606.

3-Keto-2:5:5-trimethylhexahydrobenz*isoo*xazole (CROSSLEY and RENOUF), T., 1532.

$C_{10}H_{13}O_2Cl$ γ-Chloro-β-hydroxy-α-*m*-tolyloxypropane (MARLE), T., 312.

$C_{10}H_{13}O_3N$ Damascenine, constitution and synthesis of, and its salts (EWINS), T., 544; P., 38.

$C_{10}H_{13}O_3Cl$ γ-Chloro-β-hydroxy-α-guaiacyloxypropane (MARLE), T., 316.

$C_{10}H_{13}N_5S$ *s*-Phenyl-γ-triazopropylthiocarbamide (FORSTER and WITHERS), T., 492.

$C_{10}H_{14}ON_2$ Benzoyl-αγ-diaminopropane, and its salts (BRANCH and TITHERLEY), T., 2342; P., 293.

$C_{10}H_{14}O_2N_2$ Oxime of 3-keto-2:5:5-trimethylhexahydrobenz*isoo*xazole (CROSSLEY and RENOUF), T., 1532.

$C_{10}H_{14}O_4N_2$ α-4 (or 5-) Glyoxalinemethyl-β-ethylsuccinic acid (PYMAN), T., 540; P., 48.

$C_{10}H_{14}O_5V$ Vanadium oxybisacetylacetonate (MORGAN and MOSS), P., 200.

$C_{10}H_{15}OBr$ Bromoepicamphor (BREDT and PERKIN), P., 57.

$C_{10}H_{15}O_2N$ Ethyl γ-cyano-β-methyl-α-ethylcrotonate (BLAND and THORPE), T., 889.

Amine of *C*-acetyldimethyldihydroresorcin (CROSSLEY and RENOUF), T., 1531.

α- and β-*iso*Nitrosoepicamphor (FORSTER and SPINNER), T., 1348; P., 47.

$C_{10}H_{15}O_3N$ Oxime of *C*-acetyldimethyldihydroresorcin (CROSSLEY and RENOUF), T., 1533.

$C_{10}H_{15}O_4N$ Ethyl β-cyanopropane-αβ-dicarboxylate (HOPE), P., 193.

$C_{10}H_{15}O_5N_3$ Nitrosodiallylaminosuccinic acid (FRANKLAND and SMITH), T., 1726; P., 224.

$C_{10}H_{15}Br_2As$ Phenyldiethylarsine dibromide (WINMILL), T., 720.

$C_{10}H_{15}I_2As$ Phenyldiethylarsine di-iodide (WINMILL), T., 721.

$C_{10}H_{16}O_4N_2$ Diallylaminosuccinic acid, and its salts (FRANKLAND and SMITH), T., 1725; P., 224.

$C_{10}H_{16}O_4S$ *d*-Camphor-β-sulphonic acid, optical activity of salts and derivatives of (GRAHAM), T., 746; P., 108.

$C_{10}H_{16}NI$ Phenyldimethylethylammonium iodide, compound of thiocarbamide and (ATKINS and WERNER), T., 1990.

Aminoepicamphor (BREDT and PERKIN), P., 57; and its salts (FORSTER and SPINNER), T., 1355.

$C_{10}H_{18}ON_2$ Aminoepicamphoroxime (FORSTER and SPINNER), T., 1356.

$C_{10}H_{12}O_6N_4$ Dinitrosodipropylaminosuccinic acid (FRANKLAND and SMITH), T., 59.

$C_{10}H_{20}O_4N_2$ Dipropylaminosuccinic acid, and its salts (FRANKLAND and SMITH), T., 58.

$C_{10}H_{24}NCl$ Methylethylpropyl*iso*butylammonium chloride, gold and platinum salts (POPE and READ), T., 524.

$C_{10}H_{24}NI$ Methylethylpropyl*iso*butylammonium iodide (POPE and READ), T., 523.

Methyltripropylammonium iodide, compound of thiocarbamide and (ATKINS and WERNER), T., 1990.

10 IV

$C_{10}H_7O_3NS$ 6-Nitro-7-methylthiocoumarin (CLAYTON and GODDEN), T., 214.

$C_{10}H_{10}O_4N_3I$ 1:2-, 1:3-, and 1:4-Triazoiodosobenzene acetates (FORSTER and SCHAEPPI), T., 1363.

$C_{10}H_{10}O_7N_3Cl$ 6-Chloro-2:5:6-trinitro-1-methyl-4-*iso*propyl*cyclo*hexadien-3-one (ROBERTSON and BRISCOE), T., 1970.

$C_{10}H_{13}O_4NS$ *p*-Toluenesulphonylalanine (POPE and GIBSON), T., 945.

$C_{10}H_{15}O_2NS$ Benzenesulphonyl-*sec*-butylamine (POPE and GIBSON), T., 1703.

$C_{10}H_{16}O_4N_2Br_4$ Tetrabromodipropylaminosuccinic acid (FRANKLAND and SMITH), T., 1727.

C_{11} Group.

$C_{11}H_8O_3$ 6-Hydroxy-4-phenyl-α-pyrone, and its salts (BLAND and THORPE), T., 869.

$C_{11}H_8O_4$ 2-Hydroxymethylene-5:6-methylenedioxy-1-hydrindone (RUHEMANN and LEVY), T., 2549.

$C_{11}H_8O_4$ 1-Hydrindone-2-oxalic acid (RUHEMANN), T., 1735.

$C_{11}H_8O_5$ Purpurogallone (PERKIN), T., 805; P., 94.

$C_{11}H_{10}O_3$ Substance, from West Indian satinwood (AULD and PICKLES), T., 1054; P., 143.

$C_{11}H_{11}N$ β-Cytisolidine, synthesis of (EWINS), P., 329.

$C_{11}H_{12}O_8$ *spiro*Heptanetetracarboxylic acid, and its sodium hydrogen salt (ÖSTLING), T., 476.

$C_{11}H_{15}N$ Dimethyltetrahydroquinolines, synthesis of (EWINS and KING), P., 328.

α-Cytisolidine, synthesis of (EWINS), P., 329.

2:4-Dimethyltetrahydroquinolines, four stereoisomeric optically active, and their salts (THOMAS), T., 725; P., 108.

$C_{11}H_{16}O_3$ *l*-Acetyltrimethyldihydroresorcin, and its copper salt (CROSSLEY and RENOUF), T., 1536.

C-Acetyldimethylhydroresorcin methyl ether (CROSSLEY and RENOUF), T., 1530.

Epicamphorcarboxylic acid (BREDT and PERKIN), P., 57.

$C_{11}H_{16}O_4$ Dimethyl *spiro*heptanedicarboxylate (ÖSTLING), T., 476.

$C_{11}H_{18}O_4$ Ethyl αβ-dimethylglutaconate (BLAND and THORPE), T., 1567.

$C_{11}H_{18}O_6$ Ethyl ethoxyacetylmalonate (WEIZMANN, DAVIES and STEPHEN), P., 103.

$C_{11}H_{20}O_5$ Ethyl ethoxymethylsuccinate (HOPE), T., 906.

11 III

$C_{11}H_7O_3Br$ 7-Bromo-3-acetylcoumarin (LINCH), T., 1764; P., 231.

$C_{11}H_7O_5N_3$ Semicarbazone of triketomethylenedioxyhydrindene (RUHEMANN), T., 786.

$C_{11}H_7N_2Cl$ Chloronor*iso*harman (PERKIN and ROBINSON), P., 155.

$C_{11}H_8ON_2$ Hydroxynor*iso*harman (PERKIN and ROBINSON), P., 156.

$C_{11}H_8O_2N_2$ 4:5-Indenopyrazole-3-carboxylic acid (RUHEMANN), T., 1737.

$C_{11}H_9O_3N$ Carbostyril-β-acetic acid (PERKIN and ROBINSON), P., 155.

3-Acetylaminocoumarin (LINCH), T., 1761; P., 230.

$C_{11}H_9O_3N_3$ Substance, from guanidine and triketomethylenedioxyhydrindene hydrate (RUHEMANN), T., 785.

$C_{11}H_9O_4N$ β-Phthaliminopropionic acid (WEIZMANN, DAVIES and STEPHEN), P., 104.

$C_{11}H_9O_4N_3$ 4(or 5)-Glyoxalinemethyl *p*-nitrobenzoate (PYMAN), T., 542.

$C_{11}H_{10}OS$ 6:7-Dimethylthiocoumarin (CLAYTON and GODDEN), T., 214.

$C_{11}H_{10}O_2N_2$ 4(or 5)-Glyoxalinemethyl benzoate, and its hydrochloride (PYMAN), T., 541.

Carbostyril-β-acetamide (PERKIN and ROBINSON), P., 155.

$C_{11}H_{10}NBr$ 8-Bromo-2:6-dimethylquinoline, and its salts (GARROD, JONES and EVANS), T., 1391.

$C_{11}H_{11}O_3N$ *trans*-Semianilide of glutaconic acid (BLAND and THORPE), T., 864.

$C_{11}H_{11}O_4N$ *o*-Aldehydosuccinanilic acid (PERKIN and ROBINSON), T., 155.

$C_{11}H_{12}O_2N_4$ 4-Aminoantipyrinediazonium hydroxide, salts of (MORGAN and REILLY), P., 334.

$C_{11}H_{13}ON_3$ Benzylidene derivative of diacetylhydrazoxime (FORSTER and DEY), T., 2240.

$C_{11}H_{13}O_2N_3$ Benzoyl derivative of diacetylhydrazoxime (FORSTER and DEY), T., 2239.

$C_{11}H_{13}O_6N_2$ Substance, from oxidation of nitrosantalin dimethyl ether (CAIN and SIMONSEN), T., 1074; P., 140.

$C_{11}H_{14}ON_2$ Cytisine, constitution of (Ewins), P., 329.

$C_{11}H_{14}O_2N_2$ Substance, from nitrous acid and β-*p*-toluidine aldol base (Edwards, Garrod and Jones), T., 1381.

$C_{11}H_{15}ON$ Benzoyl-*sec*-butylamine (Pope and Gibson), T., 1703.

$C_{11}H_{15}O_2N$ 6-and 7-Hydroxy-8-methoxy-2-methyltetrahydro*iso*quinolines (Pyman and Remfry), T., 1606; P., 228.

$C_{11}H_{15}O_3N$ Nitromethylenecamphor (Forster and Withers), T., 1331.

$C_{11}H_{15}O_3Br$ Bromoepicamphorcarboxylic acid (Bredt and Perkin), P., 57.

$C_{11}H_{15}NS$ 4-Benzyl-1:4-thiazan, and its salts (Clarke), T., 1589; P., 218.

$C_{11}H_{16}ON_2$ Oxime of *p*-toluidine aldol bases (Edwards, Garrod and Jones), T., 1380.

$C_{11}H_{16}O_2S$ *d*- and *l*-Methylethylphenacylthetine hydroxides, rotation of salts of (Taylor), T., 1124; P., 148.

$C_{11}H_{17}ON$ Methyl benzylmethylaminoethyl ether, and its picrate (Clarke), T., 1809.

$C_{11}H_{17}O_3N$ Amine of *C*-acetyltrimethyldihydroresorcin (Crossley and Renouf), T., 1536.

Camphorcarboxylamide (Glover and Lowry), T., 1904; P., 185; isomeric changes in (Lowry and Glover), P., 186.

O-Methyl ethers of α- and β-*iso*nitrosoepicamphor (Forster and Spinner), T., 1349.

Bornylenehydroxamic acid (Bredt and Perkin), P., 57.

$C_{11}H_{17}O_4N$ αα-Nitromethylhydroxycamphor (Forster and Withers), T., 1332.

$C_{11}H_{19}O_2N_3$ Semicarbazone of β-hydroxycamphor (Forster and Howard), P., 313.

11 IV

$C_{11}H_8O_3NBr$ 7-Bromo-3-acetylaminocoumarin (Linch), T., 1764; P., 231.

7-Bromo-3-acetylcoumarinoxime (Linch), T., 1764; P., 231.

$C_{11}H_9O_5NS$ 5-Nitro-6:7-dimethylthiocoumarin (Clayton and Godden), T., 214.

$C_{11}H_{12}O_2N_2Cl_2$ *N*-Dichlorobenzylidenediacetamide (Chattaway and Swinton), T., 1206; P., 158.

$C_{11}H_{13}O_2N_2Br$ Nitroso-derivative of bromo-*p*-toluidine aldol base (Edwards, Garrod and Jones), T., 1388.

$C_{11}H_{14}ONBr$ 3-Bromo-*p*-toluidine aldol base (Edwards, Garrod and Jones), T., 1387.

$C_{11}H_{16}O_2NBr$ αα′-Bromocamphorcarboxylamide (Glover and Lowry), T., 1906.

$C_{11}H_{17}O_2NS$ *p*-Toluenesulphonyl*iso*butylamine (Pope and Read), T., 521.

p-Toluenesulphonyl-*sec*-butylamine (Pope and Gibson), T., 1703.

C_{12} Group.

$C_{12}H_{10}$ Acenaphthene, monohalogen derivatives of (Crompton and Walker), T., 958; P., 127.

12 II

$C_{12}H_8Br_2$ Dibromodiphenylene (Dobbie, Fox and Gauge), P., 327.

$C_{12}H_8O$ Diphenylene oxide (Dobbie, Fox and Gauge), P., 327.

$C_{12}H_8O_6$ 5:6-Methylenedioxy-1-hydrindone-2-oxalic acid (Ruhemann), T., 1735.

$C_{12}H_9Cl$ Chloroacenaphthene, oxidation of, with chromic acid (Crompton and Smythe), P., 194.

$C_{12}H_{10}N_2$ *iso*Harman, and its salts (Perkin and Robinson), P., 156.

$C_{12}H_{10}I_2$ Diphenyliodinium iodide, perhaloids from (FORSTER and SCHAEPPI), T., 382; P., 37.

$C_{12}H_{13}N$ 2:6:8-Trimethylquinoline, additive compounds of (GARROD, JONES and EVANS), T., 1394.

$C_{12}H_{13}N_3$ Acetone-α-quinolylhydrazone (PERKIN and ROBINSON), P. 155.

$C_{12}H_{16}O_4$ Ethyl 1:3-dimethyl-Δ^3-*cyclo*hexen-5-one-6-oxalate (RUHEMANN), T., 1734.

$C_{12}H_{17}N$ 2:6:8-Trimethyltetrahydroquinoline, additive compounds of (GARROD, JONES and EVANS), T., 1394.

$C_{12}H_{18}O_5$ Ethyl α-acetyl-*p*-methylglutaconate (BLAND and THORPE), T., 1565.

$C_{12}H_{18}O_6$ Ethyl γ-carbethoxyglutaconate (THORPE), T., 254.

$C_{12}H_{20}O_4$ Ethyl β-methyl-α-ethylglutaconate (BLAND and THORPE), T., 1568.

$C_{12}H_{22}O_5$ Diethyl β-hydroxy-αβ-dimethyladipate (HARDING), T., 1592.

$C_{12}H_{22}O_{11}$ Sugar, from *Cedrela toona* flowers (PERKIN), T., 1543; P., 198.

$C_{12}H_{24}O$ *iso*Propyl *n*-octyl ketone (PICKARD and KENYON), T., 629.

$C_{12}H_{24}O_2$ Lauric acid, sodium salt, physical properties of (MCBAIN, CORNISH and BOWDEN), T., 2042; P., 237.

$C_{12}H_{26}O$ *iso*Propyl-*n*-octylcarbinol, rotation and derivatives of (PICKARD and KENYON), T., 629, 636.

12 III

$C_{12}H_4O_8N_4$ Tetranitrodiphenylene (DOBBIE, FOX and GAUGE), P., 327.

$C_{12}H_5O_2Cl$ Chloroacenaphthenequinone (CROMPTON and SMYTHE), P., 194.

$C_{12}H_6O_4N_2$ Dinitrodiphenylene (DOBBIE, FOX and GAUGE), P., 327.

$C_{12}H_6O_8N_6$ 2:4:2′:4′-Tetranitroazobenzene (GREEN and ROWE), T., 2450; P., 252.

$C_{12}H_7O_{10}N_7$ 2:4:6:2′:4′-Pentanitrohydrazobenzene (GREEN and ROWE), T., 2451; P., 252.

$C_{12}H_8O_2Cl_2$ 3:3′ and 5:5′-Dichloro-2:2′-diphenols (ROBERTSON and BRISCOE), T., 1972.

$C_{12}H_8O_4N_2$ 3:3′-Dinitrodiphenyl (CAIN, COULTHARD and MICKLETHWAIT), T., 2303; P., 278.

$C_{12}H_8O_8N_6$ 2:4:2′:4′- and 2:4:6:4′-Tetranitrohydrazobenzenes (GREEN and ROWE), T., 2450; P., 252.

$C_{12}H_8N_4Cl_2$ Diphenylbisdiazonium chloride, compounds of, with antimony trichloride (MAY), T., 1039.

$C_{12}H_8N_6I_2$ Di-*o*-, -*m*-, and *p*-triazophenyliodinium iodides (FORSTER and SCHAEPPI), T., 1366.

$C_{12}H_9O_2N$ α-Naphthyl *iso*nitrosomethyl ketone (LISTER and ROBINSON), T., 1307.

$C_{12}H_9N_3Cl_2$ 4:4′-Dichloro-2-aminoazobenzene (NORMAN), T., 1916; P., 232.

$C_{12}H_9N_3Br_2$ 4:4′-Dibromo-2-aminoazobenzene (NORMAN), T., 1915; P., 232.

$C_{12}H_{10}ON_2$ Norharmine, and its salts (PERKIN and ROBINSON), T., 1785.

$C_{12}H_{10}O_4N_4$ 2:2′-Dinitrohydrazobenzene (GREEN and ROWE), T., 2449.

Dinitrobenzidines, isomerism of (CAIN, COULTHARD and MICKLETHWAIT), T., 2298; P., 277.

$C_{12}H_{10}ClI_2$ Diphenyliodinium chloride iodide (FORSTER and SCHAEPPI), T., 389; P., 37.

$C_{12}H_{10}ClI_3$ Diphenyliodinium iodide iodochloride (FORSTER and SCHAEPPI), T., 387; P., 37.

$C_{12}H_{10}Cl_2I_2$ Diphenyliodinium iodide dichloride (FORSTER and SCHAEPPI), T., 386; P., 37.

$C_{12}H_{10}Cl_2Si$ Dichlorodiphenylsilicane, preparation of (KIPPING), T., 2113; P., 243.

$C_{12}H_{10}Cl_4I_2$ Diphenyliodinium iodide tetrachloride (FORSTER and SCHAEPPI), T., 385; P., 37.

$C_{12}H_{10}BrI_3$ Diphenyliodinium bromide di-iodide (FORSTER and SCHAEPPI), T., 389; P., 37.

Diphenyliodinium iodide iodobromide (FORSTER and SCHAEPPI), T., 388; P., 37.

$C_{12}H_{10}Br_2I_2$ Diphenyliodinium iodide dibromide (FORSTER and SCHAEPPI), T., 388; P., 37.

$C_{12}H_{10}Br_3I$ Diphenyliodinium bromide dibromide (FORSTER and SCHAEPPI), T., 390; P., 37.

$C_{12}H_{11}ON$ α-Naphthyl aminomethyl ketone, platinichloride of (LISTER and ROBINSON), T., 1308.

$C_{12}H_{11}ON_3$ *m*-Amino-*o*-hydroxyazobenzene, and its salts (HEWITT and RATCLIFFE), T., 1767.

$C_{12}H_{11}O_2N$ 3-Hydroxy-2-phenyl-5-methyl-1:2-dihydropyridone (BLAND and THORPE), T., 868.

$C_{12}H_{12}OS$ 4:6:7- and 4:6:8-Trimethylthiocoumarin (CLAYTON and GODDEN), T., 214.

$C_{12}H_{12}O_2Si$ Diphenylsilicanediol, preparation and properties of (KIPPING), T., 2122; P., 243.

$C_{12}H_{15}O_3N$ *d*-Dimethoxysuccinanilic acid (YOUNG), P., 143.

$C_{12}H_{16}ON_2$ 1-Nitroso-2:6:8-trimethyltetrahydroquinoline (GARROD, JONES and EVANS), T., 1394.

$C_{12}H_{16}O_2N_2$ Substance, from *m*-4-xylidine aldol base and nitrous acid (EDWARDS, GARROD and JONES), T., 1385.

$C_{12}H_{16}O_3N_2$ Substance, from *m*-4-xylidine aldol base and nitrous acid (EDWARDS, GARROD and JONES), T., 1385.

$C_{12}H_{16}O_4N_2$ Ethyl βγ-dicyano-β-methylpropane-αγ-dicarboxylate (HOPE), T., 911.

$C_{12}H_{16}NBr$ 1-γ-Bromopropyltetrahydroquinoline, hydrobromide of (JONES and DUNLOP), T., 1752.

$C_{12}H_{16}NI$ 1-γ-Iodopropyltetrahydroquinoline, hydriodide of (JONES and DUNLOP), T., 1752.

2-γ-Iodopropyltetrahydro*iso*quinoline, hydriodide of (JONES and DUNLOP), T., 1753.

2-Trimethylenetetrahydro*iso*quinolinium iodide (JONES and DUNLOP), T., 1753; P., 221.

$C_{12}H_{17}O_4N$ Ethyl α-cyano-βγ-dimethylglutaconate (BLAND and THORPE), T., 887.

$C_{12}H_{18}O_5V$ Vanadium oxybisacetylmethylacetonate (MORGAN and MOSS), P., 326.

$C_{12}H_{19}O_6Br$ Ethyl γ-bromopropane-αγγ-tricarboxylate (THORPE), T., 254.

$C_{12}H_{22}O_6N_4$ Dinitrosodibutylaminosuccinic acid (FRANKLAND and SMITH), T., 61.

$C_{12}H_{24}O_4N_2$ Di-*n*-butylaminosuccinic acid, and its salts (FRANKLAND and SMITH), T., 61.

12 IV

$C_{12}H_6O_2Cl_2Br_2$ Dichlorodibromo-2:2′-diphenol (ROBERTSON and BRISCOE), T., 1974.

$C_{12}H_6O_4N_4Cl_2$ 2:2′-Dichloro-4:4′-dinitroazobenzene (GREEN and ROWE), T., 2451; P., 252.

$C_{12}H_6O_6N_2Cl_2$ 3:3′-Dichloro-5:5′-dinitro-2:2′-diphenol (ROBERTSON and BRISCOE), T., 1973.

$C_{12}H_6O_6N_2Br_2$ 3:3′-Dibromo-5:5′-dinitro-2:2′-diphenol (ROBERTSON and BRISCOE), T., 1974.

$C_{12}H_7O_2N_5Cl_2$ 2-Nitrodiphenylbisdiazonium chloride, compound of, with antimony chloride (MAY), T., 1039.

$C_{12}H_7O_2Cl_2Br$ Dichlorobromo-2:2′-diphenol (ROBERTSON and BRISCOE), T., 1974.

$C_{12}H_8O_4N_4Cl_2$ 2:2′-Dichloro-4:4′-dinitrohydrazobenzene (GREEN and ROWE), T., 2452; P., 252.

$C_{12}H_8N_6ClI$ Di-*o*-triazophenyliodinium chloride (FORSTER and SCHAEPPI), T., 1366.

$C_{12}H_8N_6Cl_4I_2$ Di-*o*-triazophenyliodinium iodide tetrachloride (FORSTER and SCHAEPPI), T., 1366.

$C_{12}H_9ONS$ Hydroxythiodiphenylamine (HILDITCH and SMILES), T., 2295; P., 276.

$C_{12}H_{10}ClBr_2I$ Diphenyliodinium chloride dibromide (FORSTER and SCHAEPPI), T., 389; P., 37.

$C_{12}H_{11}O_3NS$ 5-Nitro-4:6:7- and 4:6:8-trimethylthiocoumarin (CLAYTON and GODDEN), T., 215.

$C_{12}H_{13}ON_2Sb$ Di-*m*-aminodiphenylhydroxystibine, and its hydrochloride (MORGAN and MICKLETHWAIT), P., 20.

$C_{12}H_{22}O_6NBr$ α-Bromo*iso*hexoylglucosamine (HOPWOOD and WEIZMANN), P., 261.

12 V

$C_{12}H_5ONCl_4S$ Tetrachlorophenazothionium hydroxide (HILDITCH and SMILES), T., 2297.

C_{13} Group.

$C_{13}H_8O_2$ Lactone of 2-hydroxydiphenyl-2′-carboxylic acid (DOBBIE, FOX, and GAUGE), P., 327.

$C_{13}H_{10}O_4$ Anhydropurpurogallone dimethyl ether (PERKIN), T., 810; P., 94.

$C_{13}H_{12}O_3$ 6-Hydroxy-3-benzyl-4-methyl-α-pyrone, and its potassium salt (BLAND and THORPE), T., 1745.

$C_{13}H_{12}O_4$ Ethyl 1-hydrindone-2-oxalate (RUHEMANN), T., 1734.

$C_{13}H_{12}O_5$ Purpurogallone dimethyl ether (PERKIN), T., 810; P., 94.

Purpurogallone ethyl ester (PERKIN), T., 806.

$C_{13}H_{14}O_4$ α-Benzyl-β-methylglutaconic acid, and its salts (BLAND and THORPE), T., 1744.

Ethyl hydrogen β-phenylglutaconate (BLAND and THORPE), T., 870.

Substance, from ethyl camphorylidenecyanoacetate and sulphuric acid (FORSTER and WITHERS), T., 1334.

$C_{13}H_{15}N$ 2:5:6:8-Tetramethylquinoline, salts of (GARROD, JONES and EVANS), T., 1393.

$C_{13}H_{16}O_5$ Camphorylidenemalonic acid (FORSTER and WITHERS), T., 1335.

$C_{13}H_{16}O_7$ Ethyl *cyclo*pentanone-2:5-dioxalate (RUHEMANN), T., 1732.

Acid, from ethyl camphorylidenecyanoacetate (FORSTER and WITHERS), T., 1337.

$C_{13}H_{18}O_2$ Carvacryl glycide ether (MARLE), T., 308.

$C_{13}H_{19}N$ 2:5:6:8-Tetramethyltetrahydroquinoline, and its salts (GARROD, JONES and EVANS), T., 1393; P., 164.

$C_{13}H_{20}O_3$ Glycerol carvacryl ether (MARLE), T., 312.

Glycerol thymyl ether (MARLE), T., 311.

$C_{13}H_{20}O_6$ Ethyl carbethoxy-α-methylglutaconates, normal and labile (BLAND and THORPE), T., 883.

$C_{13}H_{22}O_5$ Ethyl amyloxyacetylacetoacetate (WEIZMANN, DAVIES and STEPHEN), P., 103.

$C_{13}H_{24}O_5$ Diethyl β-hydroxy-αα′β-trimethyladipate (HARDING), T., 1593.

$C_{13}H_{26}O$ Di-*n*-hexyl ketone (PICKARD and KENYON), T., 629.

13 III

$C_{13}H_5O_2Cl_5$ Pentachlorophenyl benzoate (BRAZIER and MCCOMBIE), T., 977.

$C_{13}H_6O_2N_2$ Rubreserine, preparation, properties and salts of (SALWAY), T., 984; P., 125.

$C_{13}H_{10}O_3N_2$ Norharminecarboxylic acid, and its salts (PERKIN and ROBINSON), T., 1784; P., 154.

$C_{13}H_{10}NCl$ *m*-Chlorobenzylideneaniline (LAW), T., 161.

$C_{13}H_{11}O_2Cl$ 6-Chloro-3-benzyl-4-methyl-α-pyrone (BLAND and THORPE), T., 1747.

$C_{13}H_{12}ON_2$ Harmine, constitution of (PERKIN and ROBINSON), T., 1775; P., 153.

$C_{13}H_{12}O_2N_2$ Ethyl 4:5-indenopyrazole-3-carboxylate (RUHEMANN), T., 1737; P., 224.

$C_{13}H_{12}NCl$ *m*- and *p*-Chlorobenzylanilines, and their hydrochlorides (LAW), T., 160.

$C_{13}H_{12}N_2S$ Benzeneazophenylmethylmercaptole, and its salts (FOX and POPE), T., 1500; P., 200.

$C_{13}H_{13}O_2N$ 2:6-Dihydroxy-3-benzyl-4-methylpyridine (BLAND and THORPE), T., 1743.

$C_{13}H_{13}O_4N$ Ethyl phenoxyacetylcyanoacetate (WEIZMANN, DAVIES and STEPHEN), P., 103.

Oxime of ethyl 1-hydrindone-2-oxalate (RUHEMANN and LEVY), T., 2546.

$C_{13}H_{14}ON_2$ Harmaline (PERKIN and ROBINSON), T., 1775.

$C_{13}H_{14}O_2Si$ Phenylbenzylsilicanediol (ROBISON and KIPPING), T., 2164; P., 245.

$C_{13}H_{15}ON$ Anilide of 5-hydroxymethylene-3-methyl*cyclo*pentan-1-one (RUHEMANN and LEVY), T., 2552.

$C_{13}H_{15}O_3N$ Camphorylidenecyanoacetic acid, and its salts (FORSTER and WITHERS), T., 1334.

$C_{13}H_{16}O_2N_2$ Camphorylidenecyanoacetamide (FORSTER and WITHERS), T., 1335.

$C_{13}H_{16}O_3N_2$ Acetylnitroso- derivatives of *p*-toluidine aldol bases (EDWARDS, GARROD and JONES), T., 1382.

$C_{13}H_{17}O_6N$ Substance ($+H_2O$), from ethyl camphorylidenecyanoacetate and hydrogen peroxide (FORSTER and WITHERS), T., 1336.

$C_{13}H_{18}ON_2$ Eseroline, preparation, properties and salts of (SALWAY), T., 980; P., 125.

$C_{13}H_{18}O_2N_2$ Nitroso-derivative of β-ψ-cumidine aldol base (EDWARDS, GARROD and JONES), T., 1389.

$C_{13}H_{18}O_4N_2$ Ethyl γδ-dicyano*iso*pentane-ββ-dicarboxylate (HOPE), P., 193.

$C_{13}H_{19}O_2Cl$ γ-Chloro-β-hydroxy-α-carvacroxypropane (MARLE), T., 316.

γ-Chloro-β-hydroxy-α-thymoxypropane (MARLE), T., 314.

$C_{13}H_{19}O_4N$ Ethyl α-cyano-β-methyl-γ-ethylglutaconate (BLAND and THORPE), T., 888.

$C_{13}H_{23}ON_3$ Semicarbazone of deoxymesityl oxide (LAW), T., 1021.

13 IV

$C_{13}H_5O_2Cl_4I$ 2:3:5:6-Tetrachloro-4-iodophenyl benzoate (BRAZIER and MCCOMBIE), T., 976.

$C_{13}H_6O_2Cl_3I$ 2:3:6-Trichloro-4-iodophenyl benzoate dichloride (BRAZIER and MCCOMBIE), T., 975.

$C_{13}H_7O_2Cl_2I$ 2:6-Dichloro-4-iodophenyl benzoate (BRAZIER and MCCOMBIE), T., 974.

$C_{13}H_7O_2Cl_4I$ 2:6-Dichloro-4-iodophenyl benzoate dichloride (BRAZIER and MCCOMBIE), T., 974.

$C_{13}H_8O_2ClI$ 2-Chloro-4-iodophenyl benzoate (BRAZIER and MCCOMBIE), T., 973.

$C_{13}H_8O_2Cl_3I$ 2-Chloro-4-iodophenyl benzoate dichloride (BRAZIER and MCCOMBIE), T., 973.

$C_{13}H_{10}ONBr$ Salicylidene-*m*-bromoaniline (SENIER, SHEPHEARD and CLARKE), T., 1955.

5-Bromo-*o*-aminobenzophenone (ANGEL), T., 518; P., 46.

$C_{13}H_{11}ONS$ Hydroxythiodiphenylmethylamine (HILDITCH and SMILES), T., 2296.

$C_{13}H_{11}O_2N_3S$ *p*-Nitrobenzeneazophenylmethylmercaptole (FOX and POPE), T., 1503; P., 200.

$C_{13}H_{15}O_3N_2Br$ Acetylnitroso-derivative of bromo-*p*-toluidine aldol base (EDWARDS, GARROD and JONES), T., 1388.

$C_{13}H_{16}O_2NBr$ Acetyl derivative of bromo-*p*-toluidine aldol base (EDWARDS, GARROD and JONES), T., 1388.

C_{14} Group.

$C_{14}H_{14}$ 2:2′-Dimethyldiphenyl, formation of ring compounds from (KENNER) P., 187.

14 II

$C_{14}H_{12}O$ *p*-Hydroxystilbene (HEWITT, LEWCOCK and POPE), T., 604; P., 69.

$C_{14}H_{12}O_9$ Substance, from West Indian satinwood (AULD and PICKLES), T., 1055; P., 143.

$C_{14}H_{13}N$ *o*-, *m*-, and *p*-Tolylideneanilines (LAW), T., 158.

Benzylidene-*m*-toluidine (LAW), T., 158.

$C_{14}H_{14}Hg$ Mercury dibenzyl (POPE and GIBSON), T., 735.

$C_{14}H_{15}N$ *o*-, *m*-, and *p*-Methylbenzylanilines, and their hydrochlorides (LAW), T., 158.

Benzyl-*m*- and *p*-toluidines, and their hydrochlorides (LAW), T., 158.

$C_{14}H_{16}O_5$ Ethyl phenoxyacetylacetoacetate (WEIZMANN, DAVIES and STEPHEN), P., 103.

$C_{14}H_{20}O_9$ Tetra-acetylmethylpentose (POWER and ROGERSON), T., 17.

$C_{14}H_{22}O_6$ Ethyl carbethoxy-$\alpha\beta$-dimethylglutaconate (BLAND and THORPE), T., 1563.

Ethyl carbethoxy-α-ethylglutaconates, normal and labile (BLAND and THORPE), T., 884.

$C_{14}H_{22}O_8$ Ethyl $\alpha\delta$-diacetoxyadipate (DAVIES, STEPHEN and WEIZMANN), P., 94.

$C_{14}H_{28}O$ *iso*Propyl *n*-decyl ketone (PICKARD and KENYON), T., 629.

$C_{14}H_{28}O_2$ Myristic acid, brucine and cinchonine salts (HILDITCH), T., 201; sodium salt, physical properties of (MCBAIN, CORNISH and BOWDEN), T., 2042; P., 237.

$C_{14}H_{30}O$ *iso*Propyl-*n*-decylcarbinol, rotation and derivatives of (PICKARD and KENYON), T., 629, 636.

14 III

$C_{14}H_8O_3Cl_2$ *p*-Chlorobenzoic anhydride (FRANKLAND, CARTER and ADAMS), T., 2479.

$C_{14}H_8O_3I_2$ *p*-Iodobenzoic anhydride (FRANKLAND, CARTER and ADAMS), T., 2483; P., 292.

$C_{14}H_{11}O_3N$ *p*-Nitro-*p'*-hydroxystilbene (HEWITT, LEWCOCK and POPE), T., 604; P., 69.

$C_{14}H_{11}N_2Cl$ *m*-Chloroanilinophenylacetonitrile (BAILEY and MCCOMBIE), T., 2273; P., 266.

$C_{14}H_{12}O_3Br_2$ Dibromide of substance, from West Indian satinwood (AULD and PICKLES), T., 1056.

$C_{14}H_{12}O_4N_4$ *o'*-, *m'*-, and *p'*-Nitro-*m*-acetylamino-*o*-hydroxyazobenzenes (HEWITT and RATCLIFFE), T., 1768.

$C_{14}H_{13}ON$ α-Keto-β-anilino-α-phenylethane, condensation of, with carbonyl-chloride, phenylcarbimide, and phenylthiocarbimide (MCCOMBIE and SCARBOROUGH), P., 331.

$C_{14}H_{13}ON_3$ Benzilhydrazoxime (FORSTER and DEY), T., 2237; P., 275.

$C_{14}H_{13}O_2N$ 2-Hydroxy-3-methoxybenzylideneaniline (SENIER, SHEPHEARD and CLARKE), T., 1956.

Salicylidene-*o*- and *p*-anisidines (SENIER, SHEPHEARD and CLARKE), T., 1955; P., 237.

$C_{14}H_{13}O_4Br$ Bromohydroxy-derivative of substance, from West Indian satinwood (AULD and PICKLES), T., 1057.

$C_{14}H_{13}N_3Br_2$ 3:3'-Dibromodiazoamino-*p*-toluene (NORMAN), T., 1916; P., 232.

$C_{14}H_{14}NCl$ *p*-Chlorobenzyl-*o*-, *m*-, and *p*-toluidines, and their hydrochlorides (LAW), T., 165.

$C_{14}H_{14}N_2S$ Benzeneazophenylethylmercaptole, and its hydrochloride (FOX and POPE), T., 1502; P., 200.

$C_{14}H_{14}Cl_2Sn$ Dibenzylstannic chloride (SMITH and KIPPING), T., 2557; P., 314.

$C_{14}H_{14}Br_2Sn$ Dibenzylstannic bromide (SMITH and KIPPING), T., 2559; P., 314.

$C_{14}H_{14}I_2Sn$ Dibenzylstannic iodide (SMITH and KIPPING), T., 2558; P., 314.

$C_{14}H_{15}O_2N$ 3-Hydroxy-2-phenyl-5-methyl-6-ethyl-1:2-dihydropyridone (BLAND and THORPE), T., 1570.

$C_{14}H_{16}O_2Si$ Dibenzylsilicanediol, preparation of (ROBISON and KIPPING), T., 2146; P., 245.

$C_{14}H_{16}N_2S_2$ Dithio-*o*-toluidine, and its salts (HODGSON), T., 1699; P., 223.

$C_{14}H_{16}N_2S_3$ Trithio-*o*-toluidine, and its salts (HODGSON), T., 1696; P., 222.

$C_{14}H_{17}O_3N$ Methyl camphorylidenecyanoacetate (FORSTER and WITHERS), T., 1335.

$C_{14}H_{18}O_3N_2$ Acetylnitroso- derivatives of *m*-4-xylidine aldol bases (EDWARDS, GARROD and JONES), T., 1386.

$C_{14}H_{22}O_4N_2$ Ethyl α-4(or 5)-glyoxalinemethyl-β-ethylsuccinate, and its hydrogen oxalate (PYMAN), T., 541; P., 48.

$C_{14}H_{22}BrAs$ Phenylethyl-*n*-propylallylarsonium bromide (WINMILL), T., 722; P., 93.

$C_{14}H_{23}OAs$ Phenylethyl-*n*-propylallylarsonium hydroxide, *d*-α-bromocamphor-π-sulphonate of (WINMILL), T., 722; P., 93.

14 IV

$C_{14}H_8O_2NCl$ 6-Chloro-2-phenyl-1:3-benzoxazine-4-one, action of ammonia on (HUGHES and TITHERLEY), T., 219; P., 6.

$C_{14}H_{11}ON_3Cl_2$ Acetyl derivative of 4:4'-dichloro-2-aminoazobenzene (NORMAN), T., 1916.

$C_{14}H_{11}ON_3Br_2$ Acetyl derivative of 4:4'-dibromo-2-aminoazobenzene (NORMAN), T., 1916.

$C_{14}H_{11}O_2N_2Cl$ 5-Chlorosalicylbenzamidine (HUGHES and TITHERLEY), T., 221; P., 6.

$C_{14}H_{12}O_2NCl$ 2-Hydroxy-3-methoxybenzylidene-*o*-, -*m*-, and -*p*-chloroanilines (SENIER, SHEPHEARD and CLARKE), T., 1957.

$C_{14}H_{12}O_2NBr$ 2-Hydroxy-3-methoxybenzylidene-*o*-, -*m*-, and -*p*-bromoanilines (SENIER, SHEPHEARD and CLARKE), T., 1957.

$C_{14}H_{12}O_2N_3Cl$ *o'*-, *m'*-, and *p'*-Chloro-*m*-acetylamino-*o*-hydroxyazobenzenes (HEWITT and RATCLIFFE), T., 1768.

$C_{14}H_{12}O_2N_3Br$ *o'*-, *m'*-, and *p'*-Bromo-*m*-acetylamino-*o*-hydroxyazobenzenes (HEWITT and RATCLIFFE), T., 1768.

$C_{14}H_{12}O_2N_4Cl_2$ 3:3'-Dimethoxydiphenylbisdiazonium chloride, compound of, with antimony trichloride (MAY), T., 1040.

$C_{14}H_{14}O_4N_2S$ Toluene-*p*-sulphonylmethyl-*m*- and *p*-nitroanilines (MORGAN and MICKLETHWAIT), T., 144.

$C_{14}H_{16}O_2N_2S$ *as*-Toluene-*p*-sulphonylmethyl-*m*- and *p*-phenylenediamines, and their hydrochlorides (MORGAN and MICKLETHWAIT), T., 145.

$C_{14}H_{17}O_2NS$ Naphthalene-α-sulphonyl-*l*-*sec*.-butylamine (POPE and GIBSON), T., 1707.

$C_{14}H_{17}O_3NS$ Ethylpyridinium toluene-*p*-sulphonate (FERNS and LAPWORTH), T., 281.

C_{15} Group.

$C_{15}H_{10}N_2$ Indenoquinoxaline, and its picrate (PERKIN, ROBERTS and ROBINSON), T., 236.

$C_{15}H_{12}O$ Dibenzo*cyclo*heptadienone, reactions of (KENNER and TURNER), P., 277.

Phenyl styryl ketone, and its derivatives (ABELL), T., 998; P., 145.

$C_{15}H_{12}O_2$ Dibenzoylmethane, the tautomeric forms of (ABELL), T., 998; P., 145.

$C_{15}H_{12}O_3$ Chrysophanolanthranol (TUTIN and CLEWER), T., 296; P., 14.

$C_{15}H_{12}O_4$ 2:3:4-Trihydroxyphenyl styryl ketone (DUTTA and WATSON), T., 1240; P., 106.

2:4-Dihydroxyphenyl 2-hydroxystyryl ketone (DUTTA and WATSON), T., 1242.

$C_{15}H_{14}O_4$ 2:3:4-Trihydroxybenzylacetophenone (+ H_2O) (DUTTA and WATSON), T., 1241; P., 106.

$C_{15}H_{14}O_5$ Santalin, preparation and constitution of (CAIN and SIMONSEN), T., 1061; P., 139.

$C_{15}H_{14}O_7$ Substance, from ergot (FREEBORN), P., 71.

$C_{15}H_{15}N$ *m*-Tolylidene-*m*-, and *p*-toluidines (LAW), T., 163.

p-Tolylidene-*o*-, *m*-, and *p*-toluidines (LAW), T., 162.

$C_{15}H_{16}O_5$ Purpurogallin tetramethyl ether (PERKIN), T., 810.

$C_{15}H_{16}O_6$ Difurfurylidenepentaerythritol (READ), T., 2091.

$C_{15}H_{17}N$ *m*-Tolyl-*m*- and *p*-toluidines, and their hydrochlorides (LAW), T., 163.

p-Tolyl-*o*-, *m*-, and *p*-toluidines, and their hydrochlorides (LAW), T., 162.

$C_{15}H_{18}O_3$ Nycanthin (PERKIN), T., 1539; P., 198.

$C_{15}H_{20}O_5$ Ethyl γ-phenoxyethylmalonate (PYMAN), T., 535.

$C_{15}H_{24}O_6$ Ethyl γ-carbethoxy-α-*iso*-propylglutaconate (THORPE), T., 255.

$C_{15}H_{24}O_8$ Ethyl αδ-diacetoxy-β-methyladipate (DAVIES, STEPHEN and WEIZMANN), P., 95.

$C_{15}H_{22}O_7$ Ethyl β-hydroxy-αα-dimethylbutane-αβδ-tricarboxylate (HAWORTH and KING), T., 1979.

15 III

$C_{15}H_{10}O_3N_2$ 5-Phenyl-2-*o*-, -*m*-, and -*p*-nitrophenyloxazoles (LISTER and ROBINSON), T., 1310.

$C_{15}H_{10}O_3Br_6$ Glycerol di-*s*-tribromophenyl ether (MARLE), T., 309.

$C_{15}H_{11}O_2N$ 3:5-Diphenyl-2:3-dihydro-2-oxazolone (MCCOMBIE and SCARBOROUGH), P., 331.

$C_{15}H_{11}O_2I$ Dibenzoyliodomethane (ABELL), T., 997; P., 145.

$C_{15}H_{11}O_3N_3$ 6-Nitrocoumarinphenylhydrazone (CLAYTON and GODDEN), T., 214.

$C_{15}H_{12}ON_2$ 5-Phenyl-2-*o*-, and -*p*-aminophenyloxazoles, and their salts (LISTER and ROBINSON), T., 1310.

$C_{15}H_{12}O_4N_2$ *w*-*o*-, -*m*-, and -*p*-Nitrobenzoylaminoacetophenones (LISTER and ROBINSON), T., 1309.

$C_{15}H_{13}O_2N$ Oxime of phenyl α-methoxystyryl ketone (ABELL), T., 994.

$C_{15}H_{13}O_2N_3$ Formyl derivative of benzilhydrazoxime (FORSTER and DEY), T., 2237.

$C_{15}H_{13}O_3N$ *p*-Nitro-*p'*-methoxystilbene (HEWITT, LEWCOCK and POPE), T., 607.

$C_{15}H_{13}O_6N_3$ Benzoyl derivative of dimethyl*iso*picramic acid (MELDOLA and HOLLELY), T., 924.

$C_{15}H_{15}O_2N$ 2-Hydroxy-3-methoxybenzylidene-*o*-, and *p*-toluidines (SENIER, SHEPHEARD and CLARKE), T., 1956.

$C_{15}H_{15}O_3N$ 2-Hydroxy-3-methoxybenzylidene-*o*-, -*m*-, and -*p*-anisidines (SENIER, SHEPHEARD and CLARKE), T., 1958.

$C_{15}H_{15}O_5N$ Santalinoxime (CAIN and SIMONSEN), T., 1068; P., 140.

$C_{15}H_{17}O_2N$ Ethyl γ-cyano-α-benzyl-β-methylcrotonate (BLAND and THORPE), T., 891.

$C_{15}H_{19}O_3N$ Ethyl camphorylidenecyanoacetate (FORSTER and WITHERS), T., 1333.

Acetyl derivatives of *p*-toluidine aldol bases (EDWARDS, GARROD and JONES), T., 1381.

$C_{15}H_{21}O_2N$ Benzoyloxypropylpiperidine, and its hydrochloride (DUNLOP), T., 2002.

$C_{15}H_{21}O_2N_3$ Physostigmine (*eserine*), constitution of (SALWAY), T., 978; P., 125.

$C_{15}H_{21}O_4N_3$ Ethyl α-cyano-α-4(or 5)-glyoxalinemethyl-β-ethylsuccinate, and its hydrogen oxalate (PYMAN), T., 538; P., 48.

$C_{15}H_{21}O_6N$ Substance, from ethyl camphorylidenecyanoacetate and hydrogen peroxide (FORSTER and WITHERS), T., 1336.

$C_{15}H_{21}O_6V$ Vanadium teracetylacetonate (MORGAN and MOSS), P., 199.

$C_{15}H_{24}NI$ γ-Hydroxypropylpiperidine benzyl iodide (DUNLOP), T., 2002.

15 IV

$C_{15}H_{10}ONCl$ 5-Phenyl-2-*o*-chlorophenyloxazole (LISTER and ROBINSON), T., 1302.

$C_{15}H_{12}ON_2S$ Diphenyl*iso*thiohydantoin (DIXON and TAYLOR), T., 560; P., 54.

$C_{15}H_{12}O_2NCl$ ω-Chlorobenzoylaminoacetophenone (LISTER and ROBINSON), T., 1301.

C_{16} Group.

$C_{16}H_{10}O_8$ Diphenyl-2:3:2':3'-tetracarboxylic acid (KENNER), P., 277.

$C_{16}H_{12}O_4$ Dehydroemodinanthranol monomethyl ether (TUTIN and CLEWER), T., 298; P., 14.

$C_{16}H_{12}N_2$ Phenylpyrazole derivative of 2-hydroxymethylene-1-hydrindone (RUHEMANN and LEVY), T., 2548.

$C_{16}H_{14}O_4$ 2:4- and 3:4-Dimethoxyphenylphthalide (JONES, PERKIN and ROBINSON), T., 260.

$C_{16}H_{20}O_4$ Ethyl α-benzylglutaconate (BLAND and THORPE), T., 886.

$C_{16}H_{24}O_8$ Ethyl carbethoxy-γ-methylaconitate, enol and keto forms (BLAND and THORPE), P., 131.

$C_{16}H_{26}O_{10}$ Ethyl dihydroxybutanetetracarboxylate (THOMPSON), P., 147.

$C_{16}H_{32}O_2$ Palmitic acid, brucine and cinchonine salts (HILDITCH), T., 201; sodium salt, viscosity of aqueous solutions of, and the influence of electrolytes on the same (FARROW), T., 347; P., 19.

16 III

$C_{16}H_8O_3N_2$ 1-Keto-5:6-methylenedioxyhydrindenephenazine (RUHEMANN), T., 785.

$C_{16}H_9O_4N$ 1:3-Diketo-5:6-methylenedioxyhydrindylideneaniline (RUHEMANN), T., 786.

$C_{16}H_{10}O_4N_2$ Phenylhydrazone of triketomethylenedioxyhydrindene (RUHEMANN), T., 786.

$C_{16}H_{11}O_2N$ 3-Benzylideneaminocoumarin (LINCH), T., 1763.

$C_{16}H_{12}N_3Cl$ β-Naphthalenediazoamino-*p*-chlorobenzene (NORMAN), T., 1917; P., 232.

$C_{16}H_{13}ON$ Anilide of 2-hydroxymethylene-1-hydrindone (RUHEMANN and LEVY), T., 2547.

β-Naphthylamine derivative of methylfurfuraldehyde (COOPER and NUTTALL), T., 1080.

2:5-Diphenyl-4-methyloxazole (LISTER and ROBINSON), T., 1315.

5-Phenyl-2-*o*-, -*m*-, and -*p*-tolyloxazoles, and their picrates (LISTER and ROBINSON), T., 1300.

$C_{16}H_{13}O_2N$ 5-Phenyl-2-anisyloxazole, and its picrate (LISTER and ROBINSON), T., 1304.

2-Phenyl-5-anisyloxazole (LISTER and ROBINSON), T., 1305.

β-Naphthylamine derivative of ω-hydroxymethylfurfuraldehyde (COOPER and NUTTALL), T., 1080.

$C_{16}H_{13}O_5N$ α-*p*-Nitrophenyl-*p*-methoxycinnamic acid (HEWITT, LEWCOCK and POPE), T., 608.

$C_{16}H_{14}ON_2$ *o*-Aminoanilide of 2-hydroxymethylene-1-hydrindone (RUHEMANN and LEVY), T., 2548.

$C_{16}H_{15}ON$ *dl*- and *d*-1-Hydroxy-2-benzylidenehydrindamine (POPE and READ), T., 763.

$C_{16}H_{15}ON_3$ Phenyl styryl ketone α- and β-semicarbazones (HEILBRON and WILSON), T., 1482; P., 192.

$C_{16}H_{15}O_2N$ α-Benzoylaminopropiophenone (LISTER and ROBINSON), T., 1314.

ω-Toluoylaminoacetophenones (LISTER and ROBINSON), T., 1299.

dl- and *l*-1-Hydroxy-2-benzoylhydrindamide (POPE and READ), T., 763.

$C_{16}H_{15}O_3N$ ω-Benzoylamino-*p*-methoxyacetophenone (LISTER and ROBINSON), T., 1304.

ω-Anisoylaminoacetophenone (LISTER and ROBINSON), T., 1304.

$C_{16}H_{15}O_3N_3$ *m*-Acetylamino-*o*-acetoxyazobenzene (HEWITT and RATCLIFFE), T., 1767.

$C_{16}H_{15}O_5Br$ Acetate of bromohydroxy-derivative from substance from West Indian satinwood (AULD and PICKLES), T., 1057.

$C_{16}H_{16}O_2N_2$ Anhydropilosine, and its salts (PYMAN), T., 2268; P., 267.

$C_{16}H_{17}O_2N$ 2-Hydroxy-3-methoxybenzylidene-*o*-4-, *m*-4-, and *p*-xylidines (SENIER, SHEPHEARD and CLARKE), T., 1957; P., 237.

$C_{16}H_{18}ON_2$ 4-Keto-2-phenyl-3:6:6-trimethylhexahydrobenzopyrazole (CROSSLEY and RENOUF), T., 1534.

$C_{16}H_{18}O_3N_2$ Pilosine, and its salts (PYMAN), T., 2260; P., 267.

$C_{16}H_{19}O_4N$ Amyl β-phthaliminopropionate (WEIZMANN, DAVIES and STEPHEN), P., 104.

$C_{16}H_{20}ON_2$ α- and β-Phenyliminocamphoroximes (FORSTER and SPINNER), T., 1345; P., 46.

$C_{16}H_{20}O_2N_2$ Phenylhydrazone of *C*-acetyldimethyldihydroresorcin (CROSSLEY and RENOUF), T., 1535.

$C_{16}H_{20}O_3Cl_6$ *iso*Butyl di-trichloroacetyltartrate (PATTERSON and DAVIDSON), T., 379; P., 43.

$C_{16}H_{21}O_2N$ Acetyl derivatives of *m*-4-xylidine aldol bases (EDWARDS, GARROD and JONES), T., 1384.

Nor-atropine, and its salts (CARR and REYNOLDS), T., 946; P., 124.

Nor-hyoscyamine, and its salts (CARR and REYNOLDS), T., 946; P., 124.

$C_{16}H_{22}O_2Si_2$ Anhydrobisphenylethylsilicanediol (ROBISON and KIPPING), T., 2159; P., 245.

$C_{16}H_{25}O_2N$ Camphorcarboxypiperidide (GLOVER and LOWRY), T., 1907; P., 185.

16 IV

$C_{16}H_{15}O_5N_2Cl$ Phenylurethane of γ-chloro-β-hydroxy-α-*p*-nitrophenoxypropane (MARLE), T., 314.

$C_{16}H_{16}O_4N_2S$ Nitrobenzene-*m*-sulphonyl-1-tetrahydroquinaldine (POPE and WINMILL), T., 2315.

$C_{16}H_{24}O_2NBr$ Bromocamphorcarboxypiperidide (GLOVER and LOWRY), T., 1908.

16 V

$C_{16}H_{13}O_3NClBr_3$ Phenylurethane of γ-chloro-β-hydroxy-α-*s*-tribromophenoxypropane (MARLE), T., 313.

$C_{16}H_{16}ON_2ClS$ Base, from *n*-phenyl-*v*-methylphenylthiourea (DIXON and TAYLOR), T., 568.

C_{17} Group.

$C_{17}H_{10}O_3$ Hydroxynaphthaxanthone (DUTTA and WATSON), T., 1244; P., 107.

$C_{17}H_{10}O_4$ 3:4-Dihydroxynaphthaxanthone (DUTTA and WATSON), T., 1244; P., 107.

$C_{17}H_{12}O_3$ 2-Hydroxymethylene-1-hydrindone benzoate (RUHEMANN and LEVY), T., 2547.

$C_{17}H_{14}O_4$ Dibenzo*cyclo*heptadienedicarboxylic acid (KENNER), P., 187.

$C_{17}H_{15}N_3$ *o*-, *m*-, and *p*-Tolueneazo-β-naphthylamines (NORMAN), T., 1918; P., 232.

β-Naphthalenediazoamino-*m*-toluene (NORMAN), T., 1922; P., 232.

$C_{17}H_{17}N_3$ 1-*p*-Tolyl-1:2:4-triaminonaphthalene (MORGAN and MICKLETHWAIT), P., 325.

$C_{17}H_{18}O_5$ Santalin dimethyl ether (CAIN and SIMONSEN), T., 1068; P., 140.

$C_{17}H_{20}O_2$ Camphorcarboxypiperidide, isomeric changes in (LOWRY and GLOVER), P., 186.

$C_{17}H_{20}O_5$ Glycerol diguaiacyl ether (MARLE), T., 309.

$C_{17}H_{22}O_4$ Ethyl α-benzyl-β-methylglutaconate (BLAND and THORPE), T., 1743.

$C_{17}H_{34}O$ Di-*n*-octyl ketone (PICKARD and KENYON), T., 629.

17 III

$C_{17}H_{12}O_2N_2$ 1-Phenyl-4:5-indenopyrazole-3-carboxylic acid, and its silver salt (RUHEMANN), T., 1736.

$C_{17}H_{12}O_5N_2$ Substance, from benzamidine and triketomethylenedioxyhydrindene hydrate (RUHEMANN), T., 785.

$C_{17}H_{13}ON$ 5-Phenyl-2-styryloxazole (LISTER and ROBINSON), T., 1303.

$C_{17}H_{13}O_2N$ 3-Hydroxy-2:5-diphenyl-1:2-dihydropyridone (BLAND and THORPE), T., 870.

$C_{17}H_{13}O_3N$ 1-Hydrindone-2-oxanilide (RUHEMANN and LEVY), T., 2545.

Anilide of 2-hydroxymethylene-5:6-methylenedioxy-1-hydrindone (RUHEMANN and LEVY), T., 2550.

$C_{17}H_{13}O_4N_3$ 2:4-Dinitro-1-*p*-tolyl-α-naphthylamine (MORGAN and MICKLETHWAIT), P., 325.

$C_{17}H_{13}O_6N$ α-*p*-Nitrophenyl-*p*-acetoxycinnamic acid (HEWITT, LEWCOCK and POPE), T., 607.

$C_{17}H_{13}O_8N_4$ Toluene-*p*-sulphonyl-1:6-dinitro-β-naphthylamine (MORGAN and MICKLETHWAIT), T., 148.

$C_{17}H_{14}ON_2$ *m*-Tolueneazo-β-naphthol (NORMAN), T., 1921.

$C_{17}H_{15}O_2N$ ω-Cinnamoylaminoacetophenone (LISTER and ROBINSON), T., 1302.

$C_{17}H_{15}O_4N$ Substance, from anhydro-β-methyltricarballylic acid and α-naphthylamine (HOPE), T., 911.

$C_{17}H_{16}O_2N_2$ Glutacondianilide (BLAND and THORPE), T., 865.

$C_{17}H_{16}O_3N_2$ *o*-, *m*-, and *p*-Nitrobenzoyl-*l*-tetrahydroquinaldines (POPE and WINMILL), T., 2311.

$C_{17}H_{17}ON_3$ Acetone derivative of benzilhydrazoxime (FORSTER and DEY), T., 2238.

$C_{17}H_{17}O_2N$ ω-(β)-Phenylpropionylaminoacetophenone (LISTER and ROBINSON), T., 1303.

α-*o*-Toluoylaminopropiophenone (LISTER and ROBINSON), T., 1314.

6- and 7-Benzoyloxy-2-methyltetrahydro*iso*quinolines (PYMAN and REMFRY), T., 1605.

$C_{17}H_{17}O_7N$ Ethyl phthaliminoacetylmalonate (WEIZMANN, DAVIES and STEPHEN), P., 103.

Nitrosantalin dimethyl ether (CAIN and SIMONSEN), T., 1072; P., 140.

$C_{17}H_{19}O_3N$ Benzoyl derivatives of α- and β-*iso*nitrosoepicamphor (FORSTER and SPINNER), T., 1349.

$C_{17}H_{20}ON_2$ 4-Keto-2-phenyl-3:6:6:7-tetramethylhexahydrobenzopyrazole (CROSSLEY and RENOUF), T., 1537.

$C_{17}H_{20}O_3N_2$ Phenylurethanes of α- and β-*iso*nitrosoepicamphor (FORSTER and SPINNER), T., 1350.

$C_{17}H_{20}IP$ Phenyl-*p*-tolylmethylallylphosphonium iodide (POPE and GIBSON), T., 737.

$C_{17}H_{21}ON$ Benzylidene derivative of aminoepicamphor (FORSTER and SPINNER), T., 1356.

$C_{17}H_{21}O_2N$ Anilide of *C*-acetyltrimethyldihydroresorcin (CROSSLEY and RENOUF), T., 1536.

p-Toluidide of *C*-acetyldimethyldihydroresorcin (CROSSLEY and RENOUF), T., 1531.

Benzoyl derivative of aminoepicamphor (FORSTER and SPINNER), T., 1355.

$C_{17}H_{22}O_2N_2$ Phenylhydrazone of *C*-acetyltrimethyldihydroresorcin (CROSSLEY and RENOUF), T., 1537.

Phenylcarbamide of aminoepicamphor (FORSTER and SPINNER), T., 1356.

$C_{17}H_{23}O_2N_3$ Eserine blue, and its salts (SALWAY), T., 986; P., 125.

$C_{17}H_{22}IAs$ Phenylbenzylmethylallylarsonium iodide (WINMILL), T., 724; P., 93.

$C_{17}H_{24}OAs$ Phenylbenzylmethylallylarsonium hydroxide, *d*-α-bromocamphor-π-sulphonate of (WINMILL), T., 724; P., 93.

$C_{17}H_{24}O_3S$ Bornyl toluene-*p*-sulphonate (FERNS and LAPWORTH), T., 276.

17 IV

$C_{17}H_{16}O_2N_2S$ 2-Benzenesulphonyl-2-methyl-1:2-naphthylenediamine (MORGAN and MICKLETHWAIT), T., 151.

2-Toluene-*p*-sulphonyl-1:2-naphthylenediamine (MORGAN and MICKLETHWAIT), T., 149.

$C_{17}H_{16}O_4N_2S$ Benzenesulphonylmethyl-1-nitro-β-naphthylamine (MORGAN and MICKLETHWAIT), T., 151.

$C_{17}H_{16}O_5N_2S_2$ 2-Toluene-*p*-sulphonyl-1:2-naphthylenediamine-6-sulphonic acid, sodium salt (MORGAN and MICKLETHWAIT), T., 152.

$C_{17}H_{16}O_7NCl$ Ethyl phthaliminoacetylchloromalonate (WEIZMANN, DAVIES and STEPHEN), P., 104.

$C_{17}H_{16}O_7NBr$ Ethyl phthaliminoacetylbromomalonate (WEIZMANN, DAVIES and STEPHEN), P., 104.

$C_{17}H_{17}O_2N_3S$ 2-Toluene-*p*-sulphonyl-1:2:6-triaminonaphthalene (MORGAN and MICKLETHWAIT), T., 150.

$C_{17}H_{18}O_3NCl$ Phenylurethane of γ-chloro-β-hydroxy-α-*m*-tolyloxypropane (MARLE), T., 313.

$C_{17}H_{18}O_4NCl$ Phenylurethane of γ-chloro-β-hydroxy-α-guaiacyloxypropane (MARLE), T., 317.

$C_{17}H_{18}O_4N_2S$ 2-Nitrotoluene-4-sulphonyl-*l*-tetrahydroquinaldine (POPE and WINMILL), T., 2316.

$C_{17}H_{19}O_2NS$ Toluene-*p*-sulphonyl-*l*-tetrahydroquinaldine (POPE and WINMILL), T., 2314.

$C_{17}H_{22}ONBr$ 5-Bromosalicylidene-β-naphthylamine (SENIER, SHEPHEARD and CLARKE), T., 1956.

$C_{17}H_{22}O_5N_2S$ *d*-Camphor-β-sulphonylmethyl-*p*-nitroaniline (MORGAN and MICKLETHWAIT), T., 147.

$C_{17}H_{24}O_3N_2S$ *d*-Camphor-β-sulphonylmethyl-*p*-phenylenediamine (MORGAN and MICKLETHWAIT), T., 147.

C_{18} Group.

$C_{18}H_{12}O_2$ 6-Phenyl-2:3-indeno-4-pyrone, and its platinichloride (RUHEMANN), T., 1738; P., 225.

$C_{18}H_{14}O_6$ Acetyl derivative of emodin monomethyl ether (TUTIN and CLEWER), T., 294.

$C_{18}H_{18}O_5$ Veratrylidene-7-methoxychromanone (PERKIN and ROBINSON), P., 7.

$C_{18}H_{18}O_6$ 2:4- and 3:4-Dimethoxyphenylmeconine (JONES, PERKIN and ROBINSON), T., 261.

$C_{18}H_{20}O_3$ Camphorylidenephenylacetic acid (FORSTER and WITHERS), T., 1339.

Substance, from phenylcyanomethylenecamphor and sulphuric acid (FORSTER and WITHERS), T., 1338.

$C_{18}H_{22}O_6$ Ethyl γ-carbethoxy-β-phenylglutaconate (BLAND and THORPE), T., 869.

$C_{18}H_{22}N_2$ Schiff's base of *p*-toluidine (EDWARDS, GARROD and JONES), T., 1383.

$C_{18}H_{24}Sn$ Dibenzyldiethylstannane (SMITH and KIPPING), T., 2561; P., 314.

$C_{18}H_{32}O_2$ β-Eleostearic acid, and its salts (MORRELL), T., 2082; P., 235.

$C_{18}H_{36}O_2$ Stearic acid, brucine and cinchonine salts (HILDITCH), T., 201.

18 III

$C_{18}H_{12}O_4N_2$ 5:6-Methylenedioxy-1-phenyl-4:5-indenopyrazole-3-carboxylic acid (RUHEMANN and LEVY), T., 2545.

$C_{18}H_{14}ON_2$ Dianilide of furan-2:5-dialdehyde (Cooper and Nuttall), T., 1079.

$C_{18}H_{15}ON$ 2- and 6-Hydroxy-*m*-tolylidene-β-naphthylamines (Senier, Shepheard and Clarke), T., 1956.

$C_{18}H_{15}O_2N$ 2-Hydroxy-3-methoxybenzylidene-β-naphthylamine (Senier, Shepheard and Clarke), T., 1958.

5-Anisyl-2-styryloxazole (Lister and Robinson), T., 1306.

$C_{18}H_{16}ON_4$ Phenylhydrazone of furan-2:5-dialdehyde (Cooper and Nuttall), T., 1079.

$C_{18}H_{17}O_2N$ α-Cinnamoylaminopropiophenone (Lister and Robinson), T., 1314.

$C_{18}H_{17}O_3N$ ω-Cinnamoylamino-*p*-methoxyacetophenone (Lister and Robinson), T., 1305.

$C_{18}H_{17}O_3N_3$ Diacetyl derivative of benzilhydrazoxime (Forster and Dey), T., 2237.

$C_{18}H_{18}O_2N_4$ Oxalylbisbenzylidenemethylhydrazone (Backer), T., 596.

$C_{18}H_{18}O_3N_2$ Benzoylnitroso-derivatives of *p*-toluidine aldol bases (Edwards, Garrod and Jones), T., 1382.

$C_{18}H_{19}ON$ *p*-Toluoyl-*l*-tetrahydroquinaldine (Pope and Winmill), T., 2314.

Benzoyl derivatives of the 2:4-dimethyltetrahydroquinolines (Thomas), T., 726.

Phenylcyanomethylenecamphor (Forster and Withers), P., 1337.

$C_{18}H_{19}O_2N$ Benzoyl derivatives of *p*-toluidine aldol bases (Edwards, Garrod and Jones), T., 1381.

Anhydride, of compound $C_{18}H_{21}O_3N$ (Forster and Withers), T., 1340.

$C_{18}H_{19}O_3N$ 7-Benzoyloxy-8-methoxy-2-methyltetrahydro*iso*quinoline, and its hydrobromide (Pyman and Remfry), T., 1607.

$C_{18}H_{19}O_7N$ Ethyl β-phthaliminopropionylmalonate (Weizmann, Davies and Stephen), P., 104.

$C_{18}H_{20}O_4N_2$ *d*-Dimethoxysuccinanilide (Young), P., 143.

$C_{18}H_{20}O_4Sn$ Dibenzylstannic acetate (Smith and Kipping), T., 2559; P., 314.

$C_{18}H_{20}N_2Br_2$ Schiff's base of bromo-*p*-toluidine (Edwards, Garrod and Jones), T., 1388.

$C_{18}H_{21}ON$ 1-γ-Phenoxypropyltetrahydroquinoline (Jones and Dunlop), T., 1752.

2-γ-Phenoxypropyltetrahydro*iso*quinoline, and its hydrochloride (Jones and Dunlop), T., 1753.

$C_{18}H_{21}ON_3$ Nitroso-derivative of Schiff's base of *p*-toluidine (Edwards, Garrod and Jones), T., 1383.

$C_{18}H_{21}O_2N$ Substance, from phenylcyanomethylenecamphor and sodium hydroxide (Forster and Withers), T., 1338.

$C_{18}H_{21}O_3N$ Substance (+ EtOH), from phenylcyanomethylenecamphor and hydrogen peroxide (Forster and Withers), T., 1339.

$C_{18}H_{21}O_4N$ Ethyl α-cyano-γ-benzyl-β-methylglutaconate (Bland and Thorpe), T., 889, 891.

$C_{18}H_{24}IAs$ Phenylbenzylethyl-*n*-propylarsonium iodide (Winmill), T., 721.

$C_{18}H_{25}OAs$ Phenylbenzylethyl-*n*-propylarsonium hydroxide, *d*-camphor-β-sulphonate of (Winmill), T., 721.

$C_{18}H_{32}O_2Br_4$ Tetrabromo-β-eleostearic acid (Morrell), T., 2028.

18 IV

$C_{18}H_{12}ON_2Cl_2$ Dichlorophenylphenazonium hydroxide, salts of (Balls, Hewitt and Newman), T., 1849.

$C_{18}H_{14}ON_3Cl$ Acetyl derivative of *p*-chlorobenzeneazo-β-naphthylamine (NORMAN), T., 1917.

$C_{18}H_{14}ON_3Br$ Acetyl derivative of *p*-bromobenzeneazo-β-naphthylamine (NORMAN), T., 1918.

$C_{18}H_{18}O_6N_2S$ Toluene-*p*-sulphonylmethyl-1:6-dinitro-β-naphthylamine (MORGAN and MICKLETHWAIT), T., 152.

$C_{18}H_{16}O_4N_2S$ Toluene-*p*-sulphonylmethyl-1-nitro-β-naphthylamine (MORGAN and MICKLETHWAIT), T., 150.

$C_{18}H_{17}O_2NS$ Toluene-*p*-sulphonylmethyl-β-naphthylamine (MORGAN and MICKLETHWAIT), T., 150.

$C_{16}H_{18}ONBr$ 8-Bromo-1-benzoyl-2:6-dimethyltetrahydroquinoline (GARROD, JONES and EVANS), T., 1392.

$C_{18}H_{18}O_2N_2S$ 2-Toluene-*p*-sulphonyl-2-methyl-1:2-naphthylenediamine (MORGAN and MICKLETHWAIT), T., 151.

$C_{18}H_{19}O_2N_3S$ 2-Toluene-*p*-sulphonyl-2-methyl-1:2:6-triaminonaphthalene (MORGAN and MICKLETHWAIT), T., 152.

$C_{18}H_{20}O_2N_2S_2$ Acetyl derivative of dithio-*o*-toluidine (HODGSON), T., 1701; P., 223.

$C_{18}H_{20}O_2N_2S_3$ Acetyl derivative of trithio-*o*-toluidine (HODGSON), T., 1698; P., 222.

$C_{18}H_{34}O_6NBr$ α-Bromolaurylglucosamine (HOPWOOD and WEIZMANN), P., 261.

C_{19} Group.

$C_{19}H_{12}O_4$ Acetoxynaphthaxanthone (DUTTA and WATSON), T., 1244; P., 107.

$C_{19}H_{12}O_5$ Acetyl derivative of dihydroxynaphthaxanthone (DUTTA and WATSON), T., 1243; P., 107.

$C_{19}H_{14}O_2$ Ketohydrindylmethyleneketohydrindene (RUHEMANN and LEVY), T., 2549.

$C_{19}H_{18}O_4$ Ethyl β-dibenzoylpropionate (ABELL), T., 996; P., 145.

$C_{19}H_{18}O_7$ Diacetylsantalin (CAIN and SIMONSEN), T., 1066; P., 140.

$C_{19}H_{24}O_6$ Ethyl carbethoxy-α-benzylglutaconates, normal and labile (BLAND and THORPE), T., 885.

$C_{19}H_{26}Sn$ Dibenzylethylpropylstannane (SMITH and KIPPING), T., 2561; P., 314.

$C_{19}H_{36}O_4$ Diheptylidenepentaerythritol (READ), T., 2091.

19 III

$C_{19}H_{13}ON$ 5-Phenyl-2-α-naphthyloxazole, and its picrate (LISTER and ROBINSON), T., 1306.

2-Phenyl-5-α-naphthyloxazole, and its picrate (LISTER and ROBINSON), T., 1308.

$C_{19}H_{14}O_4N_4$ *p'*-Nitro-*m*-benzoylamino-*o*-hydroxyazobenzene (HEWITT and RATCLIFFE), T., 1770.

$C_{19}H_{15}O_2N$ ω-α-Naphthoylaminoacetophenone (LISTER and ROBINSON), T., 1306.

α-Naphthyl benzoylaminomethyl ketone (LISTER and ROBINSON), T., 1307.

$C_{19}H_{15}O_2N_3$ *m*-Benzoylamino-*o*-hydroxyazobenzene (HEWITT and RATCLIFFE), T., 1769.

$C_{19}H_{16}O_2N_2$ Ethyl 1-phenyl-4:5-indenopyrazole-3-carboxylate (RUHEMANN), T., 1736; P., 224.

$C_{19}H_{17}ON_3$ Acetyl derivatives of *o*-, *m*-, and *p*-tolueneazo-β-naphthylamines (NORMAN), T., 1919.

$C_{19}H_{17}O_2N$ 3-Hydroxy-2-phenyl-6-benzyl-5-methyl-1:2-dihydropyridone (BLAND and THORPE), T., 1747.

$C_{19}H_{17}O_9N$ Nitrodiacetylsantalin (CAIN and SIMONSEN), T., 1067; P., 140.

$C_{19}H_{18}O_8N_2$ Di-*o*, -*m*-, and -*p*-nitrodibenzylidenepentaerythritols (READ), T., 2092.

$C_{19}H_{19}O_3N$ Semianilide of α-benzyl-β-methylglutaconic acid (BLAND and THORPE), T., 1746.

$C_{19}H_{20}O_3N_2$ Benzoylnitroso-derivative of *m*-4-xylidine-β-aldol base (EDWARDS, GARROD and JONES), T., 1386.

$C_{19}H_{22}ON_2$ Cinchonine, salts of, with myristic, palmitic, and stearic acids (HILDITCH), T., 201.

$C_{19}H_{22}O_2N_2$ Cupreine, absorption spectrum of (DOBBIE and FOX), T., 77.

$C_{19}H_{24}O_5N_2$ Ethyl 4(or 5)-gloxalinemethyl-γ-phenoxyethylmalonate, and its hydrogen oxalate (PYMAN), T., 535; P., 47.

C_{20} Group.

$C_{20}H_{10}O_{10}$ Bismethylenedioxyhydrindantin (RUHEMANN), T., 787.

$C_{20}H_{14}O_4$ Phenolphthalein, use of, as an indicator (MCBAIN), T., 814; P., 106.

$C_{20}H_{18}O_8$ Tetramethyl diphenyl-2:3:2′:3′-tetracarboxylate (KENNER), P., 277.

$C_{20}H_{20}O_5$ 3:4-Dimethoxy-3′:4′-methylenedioxy-2-hydroxymethyl-6′-vinylstilbene (*berberilene*) (MCDAVID, PERKIN and ROBINSON), T., 1226; P., 161.

$C_{20}H_{22}N_2$ Schiff's base of *m*-4-xylidine, and its hydrochloride and compound with trinitrobenzene (EDWARDS, GARROD and JONES), T., 1386.

$C_{20}H_{30}O_2$ Carvelones, isomeric (LAW), T., 1028.

$C_{20}H_{30}N_2$ Epidihydrodicamphenepyrazine, and its salts (FORSTER and SPINNER), T., 1357.

$C_{20}H_{36}O_2$ Ethyl β-eleostearate (MORRELL), T., 2087; P., 236.

$C_{20}H_{38}O_2$ Menthopinacone (two isomerides) (LAW), T., 1026.

20 III

$C_{20}H_8O_7N_2$ Substance, from triketomethylenedioxyhydrindene hydrate and ammonia (RUHEMANN), T., 784.

$C_{20}H_{12}O_2S$ β-Naphthasulphonium-quinone, reactions of (CHRISTOPHER and SMILES), T., 710; P., 93.

Naphthathioxin oxide, nitrate of (CHRISTOPHER and SMILES), T., 714.

$C_{20}H_{14}O_2S$ *iso*-β-Naphthol sulphide, dehydration of (ROSS and SMILES), P., 275.

β-Naphthol sulphides, isomeric (CRYMBLE, ROSS and SMILES), T., 1146; P., 162; action of bromine on (NOLAN and SMILES), T., 1420; P., 188.

$C_{20}H_{14}O_4N_2$ 2:6-Dibenzoyldiamino-*p*-benzoquinone (MELDOLA and HOLLELY), T., 930.

$C_{20}H_{15}O_3N_3$ *p*-Nitrobenzylideneharmine (PERKIN and ROBINSON), T., 1783; P., 153.

$C_{20}H_{16}ON_2$ Benzylideneharmine, and its salts (PERKIN and ROBINSON), T., 1782; P., 153.

$C_{20}H_{16}O_2N_2$ Disalicylidene-*o*-, and -*m*-phenylenediamines (SENIER, SHEPHEARD and CLARKE), T., 1955; P., 237.

$C_{20}H_{16}O_3N_2$ 2:4-Dibenzoyldiaminophenol (MELDOLA and HOLLELY), T., 931.

$C_{20}H_{16}O_6N_2$ Nitroso*iso*oxyberberine (BLAND, PERKIN and ROBINSON), T., 265.

$C_{20}H_{16}O_6Cl_2$ Methyl di-*o*-, -*m*-, and -*p*-chlorobenzoyltartrates (FRANKLAND, CARTER and ADAMS), T., 2477.

$C_{20}H_{16}O_8Br_2$ Methyl di-*o*-, -*m*-, and -*p*-bromobenzoyltartrates (FRANKLAND, CARTER and ADAMS), T., 2479.

$C_{20}H_{16}O_8I_2$ Methyl di-*o*-, -*m*-, and -*p*-iodobenzoyltartrates (FRANKLAND, CARTER and ADAMS), T., 2481.

$C_{20}H_{17}ON$ α-Keto-β-anilino-αβ-diphenylethane, condensation of, and its homologues, with phenylcarbimide and with phenylthiocarbimide (BRAZIER and MCCOMBIE), T., 2352; P., 287.

$C_{20}H_{17}O_5N$ *iso*Oxyberberine, preparation and properties of, and its dibromide (BLAND, PERKIN and ROBINSON), T., 262.

$C_{20}H_{18}ON_2$ *C*-Benzylharmine, and its hydrochloride (PERKIN and ROBINSON), T., 1784; P., 153.

$C_{20}H_{18}O_5V$ Vanadium oxybisbenzoylacetonate (MORGAN and MOSS), P., 325.

$C_{20}H_{22}O_2N_4$ Succinylbismethylbenzylidenehydrazone (BACKER), T., 598.

$C_{20}H_{23}ON$ Benzoyl-2:5:6:8-tetramethyltetrahydroquinoline (GARROD, JONES and EVANS), T., 1393.

$C_{20}H_{23}O_2N$ Benzoyl derivative of β-ψ-cumidine aldol base (EDWARDS, GARROD and JONES), T., 1389.

$C_{20}H_{24}O_2N_2$ Quinine, absorption spectrum of (DOBBIE and FOX), T., 77.

$C_{20}H_{28}O_3N_2$ β-Camphornitrilic anhydride (FORSTER and SPINNER), T., 1352.

20 IV

$C_{20}H_{10}OCl_2S$ Dichloronaphthathioxin (CHRISTOPHER and SMILES), T., 715.

$C_{20}H_{10}O_2BrS$ Dibromonaphthasulphonium-quinone, and its hydrogen bromide additive product (NOLAN and SMILES), T., 1425; P., 188.

$C_{20}H_{11}OClS$ Chloronaphthathioxin (CHRISTOPHER and SMILES), T., 715.

$C_{20}H_{11}O_2ClS$ Chloronaphthathioxin oxide (CHRISTOPHER and SMILES), T., 715.

$C_{20}H_{12}OBr_2S$ Naphthathioxonium bromide, preparation of (NOLAN and SMILES), P., 276.

$C_{20}H_{12}O_2Cl_2S$ 4-Chloro-1-naphthol 2-sulphide (CHRISTOPHER and SMILES), T., 717.

$C_{20}H_{14}O_2NCl$ Dibenzo-*m*-chloroanilide (BAILEY and MCCOMBIE), T., 2275.

5-Chloro-*o*-benzoylaminobenzophenone (ANGEL), T., 517; P., 46.

$C_{20}H_{14}O_2NBr$ 5-Bromo-*o*-benzoylaminobenzophenone (ANGEL), T., 518; P., 46.

$C_{20}H_{15}O_2NS$ 3:4:5-Triphenyloxasulphinazole (MCCOMBIE and PARKES), T., 1997.

$C_{20}H_{16}ONCl$ α-Keto-β-*m*-chloroanilino-αβ-diphenylethane (BAILEY and MCCOMBIE), T., 2276.

$C_{20}H_{16}ON_2S$ Benzoyldiphenylthiocarbamide (DIXON and TAYLOR), T., 2512.

$C_{20}H_{19}O_3NS$ Naphthalene-α- and β-sulphonyl-*l*-tetrahydroquinaldines (POPE and WINMILL), T., 2317.

$C_{20}H_{24}O_3NCl$ Phenylurethane of γ-chloro-β-hydroxy-α-thymoxypropane (MARLE), T., 314.

C_{21} Group.

$C_{21}H_{14}O_6$ Methylenedioxy-derivative of ketohydrindylmethyleneketohydrindene (RUHEMANN and LEVY), T., 2550.

$C_{21}H_{20}O_8$ Dipiperonylidenepentaerythritol (READ), T., 2093.

$C_{21}H_{21}O_6$ Anhydrohydrastininemeconine (HOPE and ROBINSON), P., 18.

$C_{21}H_{22}O_5$ Apigenin triethyl ether (PERKIN), P., 328.

$C_{21}H_{24}O_6$ Dianisylidenepentaerythritol (READ), T., 2092.

$C_{21}H_{24}O_{12}$ Saponarin, blue compound of, with iodine (BARGER and FIELD), T., 1394; P., 157.

$C_{21}H_{30}O_4$ Euonymol (ROGERSON), T., 1046; P., 138.

$C_{21}H_{42}O_2$ Cluytinic acid (TUTIN and CLEWER), T., 2225; P., 265.

21 III

$C_{21}H_{15}O_2N$ 3:4:5-Triphenyl-2:3-dihydro-2-oxazolone (MCCOMBIE and PARKES), T., 1994; P., 238.

$C_{21}H_{16}ON_2$ 1:3:4-Triphenyl-2:3-dihydro-2-glyoxalone (MCCOMBIE and SCARBOROUGH), P., 331.

$C_{21}H_{16}N_2S$ 1:3:4-Triphenyl-2:3-dihydro-2-glyoxalthione (MCCOMBIE and SCARBOROUGH), P., 331.

$C_{21}H_{17}ON_3$ Benzylidene derivative of benzilhydrazoxime (FORSTER and DEY), T., 2238.

$C_{21}H_{17}O_2N$ 3:4:5-Triphenyl-2:3:4:5-tetrahydro-2-oxazolone (CROWTHER and MCCOMBIE), P., 315.

$C_{21}H_{17}O_2N_3$ Benzoyl derivative of benzilhydrazoxime (FORSTER and DEY), T., 2238.

$C_{21}H_{18}O_5N_2$ Benzeneazosantalin (CAIN and SIMONSEN), T., 1068; P., 140.

$C_{21}H_{19}ON$ α-Keto-β-*o*-, and -*m*-toluidino-αβ-diphenylethanes, and their hydrochlorides (MCCOMBIE and PARKES), T., 1995.

α- and β-Naphthoyl-*l*-tetrahydroquinaldines (POPE and WINMILL), T., 2316.

$C_{21}H_{20}O_8N$ Nitro-*dl*-β(or α)-hydrastine (HOPE and ROBINSON), P., 17.

$C_{21}H_{21}OSb$ Tribenzylstibine oxide (MORGAN and MICKLETHWAIT), P., 68.

$C_{21}H_{21}Cl_2Sb$ Tribenzylstibine dichloride (MORGAN and MICKLETHWAIT), P., 68.

$C_{21}H_{22}O_6N$ Amino-*dl*-β(or α)-hydrastine (HOPE and ROBINSON), P., 17.

$C_{21}H_{22}BrP$ Phenyl-*p*-tolylbenzylmethylphosphonium bromide (POPE and GIBSON), T., 738.

$C_{21}H_{22}IP$ Phenyl-*p*-tolylbenzylmethylphosphonium iodide (POPE and GIBSON), T., 740.

$C_{21}H_{23}OP$ Phenyl-*p*-tolylbenzylmethylphosphonium hydroxide, salts of (POPE and GIBSON), T., 738, 740.

$C_{21}H_{23}O_6N_2$ Hydrazino-*dl*-β(or α)-hydrastine (HOPE and ROBINSON), P., 18.

21 IV

$C_{21}H_{14}ON_3Cl$ 5′-Chloro-2′-hydroxy-2:4:6-triphenyl-1:3:5-triazine (HUGHES and TITHERLEY), T., 221; P., 6.

$C_{21}H_{17}O_2NS$ 4:5-Diphenyl-3-*m*-, and -*p*-tolyloxasulphinazoles (MCCOMBIE and PARKES), T., 1998.

$C_{21}H_{17}O_2N_2Cl$ *N*-Chlorobenzylidenedibenzamide (CHATTAWAY and SWINTON), T., 1208; P., 158.

$C_{21}H_{18}ON_2S$ Benzoyldiphenylmethylthiocarbamide (DIXON and TAYLOR), T., 2522.

C_{22} Group.

$C_{22}H_{16}$ 6:13-Dihydrodinaphthanthracene (W. H. and M. MILLS), T., 2204; P., 243.

$C_{22}H_{18}$ α-and β-Tetrahydrodinaphthanthracenes (W. H. and M. MILLS), T., 2202; P., 243.

22 II

$C_{22}H_{10}O_4$ 5:7:12:14-Dinaphthanthradiquinone (W. H. and M. MILLS), T., 2200; P., 242.

$C_{22}H_{10}O_8$ Anhydro*iso*purpurogallone (PERKIN), T., 807.
$C_{22}H_{12}O_2$ Dinaphthanthraquinone (W. H. and M. MILLS), T., 2206; P., 243.
$C_{22}H_{14}O$ Dinaphthanthrone (W. H. and M. MILLS), T., 2206; P., 243.
$C_{22}H_{14}O_6$ 4:6-Dibenzoyl*iso*phthalic acid (W. H. and M. MILLS), T., 2200; P., 242.
2:5-Dibenzoylterephthalic acid (+ H_2O), and its sodium salt (W. H. and M. MILLS), T., 2199; P., 242.
$C_{22}H_{14}O_{10}$ *iso*Purpurogallone (PERKIN), T., 809; P., 94.
$C_{22}H_{16}O_6$ Diacetyl derivative of dihydroxytetrahydrodinaphthanthraquinone (W. H. and M. MILLS), T., 2206.
$C_{22}H_{18}O_2$ Dibenzoylphenylethane (ABELL), T., 997; P., 145.
$C_{22}H_{23}O_7$ β-Gnoscopine (HOPE and ROBINSON), P., 16.
$C_{22}H_{24}N_4$ Phenylhydrazone of 4-keto-2-phenyl-3:6:6-trimethylhexahydrobenzopyrazole (CROSSLEY and RENOUF), T., 1535.
$C_{22}H_{42}O_2$ *iso*Erucic acid (MACBETH and STEWART), P., 68.

22 III

$C_{22}H_{14}O_3S$ Acetoxynaphthathioxin (CHRISTOPHER and SMILES), T., 716.
$C_{22}H_{17}O_2N$ 4:5-Diphenyl-3-*o*-, -*m*-, and -*p*-tolyl-2:3-dihydro-2-oxazolones (MCCOMBIE and PARKES), T., 1996.
$C_{22}H_{19}O_6N$ Acetyl*iso*oxyberberine (BLAND, PERKIN and ROBINSON), T., 265.
$C_{22}H_{20}O_{10}N_2$ αδ-Diphthalaminoadipic acid (DAVIES, STEPHEN and WEIZMANN), P., 95.
$C_{22}H_{23}O_7N$ *iso*Narcotine (JONES, PERKIN and ROBINSON), T., 257; P., 4.
$C_{22}H_{24}ON_4$ Tetramethylphenosafranine, salts of (BALLS, HEWITT and NEWMANN), T., 1848.
$C_{22}H_{23}O_7N_2$ Hydrazino-β-gnoscopine (HOPE and ROBINSON), P., 17.
$C_{22}H_{28}ON_2$ Acetyl derivative of Schiff's base of *m*-4-xylidine (EDWARDS, GARROD and JONES), T., 1387.

22 IV

$C_{22}H_{18}O_2N_4S$ 4-Benzeneazo-2-benzenesulphonyl-1:2-naphthylenediamine (MORGAN and MICKLETHWAIT), T., 149.
$C_{22}H_{19}O_6NBr_2$ Acetyl*iso*oxyberberine dibromide (BLAND, PERKIN and ROBINSON), T., 266.
$C_{22}H_{27}O_8NS$ Tetrahydroberberine methosulphate (MCDAVID, PERKIN and ROBINSON), T., 1222.

C_{23} Group.

$C_{23}H_{12}O_4$ 13-Methyl-5:7:12:14-dinaphthanthradiquinone (W. H. and M. MILLS), T., 2201.
$C_{23}H_{16}O_5$ Ararobinol (TUTIN and CLEWER), T., 295; P., 14.
$C_{23}H_{18}O_5$ Dihydroararobinol (TUTIN and CLEWER), T., 295.
$C_{23}H_{24}O_4$ Dicinnamylidenepentaerythritol (READ), T., 2092.
$C_{23}H_{26}O_6$ Luteolin tetraethyl ether (PERKIN), P., 328.
$C_{23}H_{26}Sn$ Tribenzylethylstannane (SMITH and KIPPING), T., 2560; P., 314.
$C_{23}H_{32}O_3$ Glycerol dicarvacryl ether (MARLE), T., 309.

23 III

$C_{23}H_{18}O_3N_2$ Purpurogallonedianilide (PERKIN), T., 806; P., 94.
$C_{23}H_{21}O_2N$ α-Keto-β-carbethoxyanilino-αβ-diphenylethane (MCCOMBIE and PARKES), T., 1994; P., 238.
$C_{23}H_{21}O_6N$ Ethyl phthaliminopiperonylmalonate (STEPHEN and WEIZMANN), P., 160.

$C_{23}H_{23}O_7N$ Ethyl phthalimino-*p*-methoxybenzylmalonate (STEPHEN and WEIZMANN), P., 160.

$C_{23}H_{24}O_2N_2$ Benzoyl derivatives of α- and β-phenyliminocamphoroximes (FORSTER and SPINNER), T., 1346.

$C_{23}H_{25}O_2N_3$ Phenylurethanes of α- and β-phenyliminocamphoroximes (FORSTER and WITHERS), T., 1346.

$C_{23}H_{25}O_4N_3$ 2:6-Dibenzoyldiamino-1-hydroxyphenyl-4-trimethylammonium hydroxide, salts of (MELDOLA and HOLLELY), T., 930.

$C_{23}H_{26}O_4N_2$ Brucine, salts of, with myristic, palmitic, and stearic acids (HILDITCH), T., 201.

$C_{23}H_{29}O_9N$ Oxonitin, preparation and properties of (CARR), T., 2244; P., 253.

23 IV

$C_{23}H_{16}ON_3Cl$ Benzoyl derivative of *p*-chlorobenzeneazo-β-naphthylamine (NORMAN), T., 1917.

$C_{23}H_{16}ON_3Br$ Benzoyl derivative of *p*-bromobenzeneazo-β-naphthylamine (NORMAN), T., 1918.

$C_{23}H_{18}O_2N_2Br_2$ Dibromo-5-dimethylaminoanilo-3:4-diphenyl*cyclo*pentene-1:2-dione (RUHEMANN and NAUNTON), T., 48.

C_{24} Group.

$C_{24}H_{16}N_8$ Tetrakisazobenzene (GREEN and ROWE), T., 2004; P., 233.

$C_{24}H_{40}O_5$ Cholalic acid, blue compounds of, with iodine (BARGER and FIELD), T., 1394; P., 157.

$C_{24}H_{46}O_2$ Menthyl myristate (HILDITCH), T., 201.

24 III

$C_{24}H_{10}O_2Cl_2$ Dichlorodiacenaphthylidenedione (CROMPTON and SMYTHE), P., 195.

$C_{24}H_{19}ON_3$ Benzoyl derivatives of *o*-, *m*-, and *p*-tolueneazo-β-naphthylamines (NORMAN), T., 1919.

$C_{24}H_{22}O_3N_2$ Tribenzoyl-αγ-diaminopropane (BRANCH and TITHERLEY), T., 2349.

$C_{24}H_{22}O_3Si_2$ Anhydrobisdiphenylsilicanediol (KIPPING), T., 2131; P., 244.

$C_{24}H_{23}O_3N$ α-Keto-β-carbethoxy-*o*-, -*m*-, and -*p*-toluidino-αβ-diphenylethanes (MCCOMBIE and PARKES), T., 1996.

$C_{24}H_{26}O_3N_2$ Dibenzoyl derivative of aminoepicamphoroxime (FORSTER and SPINNER), T., 1357.

$C_{24}H_{45}O_2Br$ Menthyl α-bromomyristate (CHRISTOPHER and HILDITCH), T., 207.

24 IV

$C_{24}H_{18}ON_3Cl$ Phenylaminochlorophenylphenazonium hydroxide, chloride and nitrate of (BALLS, HEWITT and NEWMAN), T., 1849.

$C_{24}H_{21}O_3N_3S$ Azo-β-napthol derivatives of *as*-toluene-*p*-sulphonylmethyl-*p*-phenylenediamine (MORGAN and MICKLETHWAIT), T., 146.

$C_{24}H_{22}O_6N_4S_2$ Toluene-*p*-sulphonylmethylamino-*p*-benzene-2-azo-7-amino-α-naphthol-3-sulphonic acid, sodium salt (MORGAN and MICKLETHWAIT), T., 146.

C_{25} Group.

$C_{25}H_{30}O_7$ Quercetin pentaethyl ether (PERKIN), P., 328.

$C_{25}H_{40}O$ Homotaraxasterol (POWER and BROWNING), T., 2425; P., 285.

25 III

$C_{25}H_{19}O_6N_4$ Dinitro-5-dimethylaminoanilo-3:4-diphenyl*cyclo*pentene-1:2-dione (RUHEMANN and NAUNTON), T., 49.

$C_{25}H_{19}N_4Cl$ Substance, from safranine and benzaldehyde (BALLS, HEWITT and NEWMAN), T., 1848.

$C_{25}H_{20}O_2N_2$ 5-Dimethylaminoanilo-3:4-diphenyl*cyclo*pentene-1:2-dione, and its platinichloride (RUHEMANN and NAUNTON), T., 46.

$C_{25}H_{22}O_2N_2$ 5-Dimethylaminoanilo-3:4-diphenyl*cyclo*pentane-1:2-dione, and its platinichloride (RUHEMANN and NAUNTON), T., 49.

$C_{25}H_{24}ON_4$ 5-Phenyloxazole-2-*p*-benzeneazodiethylaniline (LISTER and ROBINSON), T., 1313.

$C_{25}H_{24}O_2N_2$ Dianilide of 6-chloro-3-benzyl-4-methyl-α-pyrone (BLAND and THORPE), T., 1747.

25 IV

$C_{25}H_{19}ON_4Cl$ Substance, from safranine and *p*-hydroxybenzaldehyde (BALLS, HEWITT and NEWMAN), T., 1848.

$C_{25}H_{19}O_2N_2Br$ Bromo-5-dimethylaminoanilo-3:4-diphenyl*cyclo*pentene-1:2-dione, and its platinichloride (RUHEMANN and NAUNTON), T., 47.

C_{26} Group.

$C_{26}H_{48}O_4$ Cetyl hydrogen camphorate (HILDITCH), T., 201.

$C_{26}H_{50}O_2$ Menthyl palmitate (HILDITCH), T., 201.

26 III

$C_{26}H_{20}ON_2$ Di-β-naphthylamine derivative of furan-2:5-dialdehyde (COOPER and NUTTALL), T., 1079.

$C_{26}H_{24}O_8N_2$ Ethyl αδ-diphthaliminoadipate (DAVIES, STEPHEN and WEIZMANN), P., 95.

$C_{26}H_{23}O_3N$ Benzoyl derivatives of *m*-4-xylidine aldol bases (EDWARDS, GARROD and JONES), T., 1384.

$C_{26}H_{28}O_4N_4$ 2:3-Bis(-*p*-dimethylaminoanilo)-5:6-methylenedioxy-1-hydrindone hydrate (RUHEMANN), T., 782.

$C_{26}H_{48}O_4S_2$ Cetyl camphor-β-sulphonate (HILDITCH), T., 202.

$C_{26}H_{49}O_2Br$ Menthyl α-bromopalmitate (CHRISTOPHER and HILDITCH), T., 207.

C_{27} Group.

$C_{27}H_{42}O_2$ Acetylhomotaraxasterol (POWER and BROWNING), T., 2426.

$C_{27}H_{44}O$ Cluytiasterol (+ H_2O), (TUTIN and CLEWER), T., 2228; P., 265.

$C_{27}H_{46}O_2$ Atropurol (ROGERSON), T., 1049; P., 138.

27 III

$C_{27}H_{19}N_2Cl$ 4:5-Diphenyl-1-*m*-chlorophenylglyoxaline (BAILEY and McCOMBIE), T., 2276.

$C_{27}H_{20}ON_2$ 1:3:4:5-Tetraphenyl-2:3-dihydro-2-glyoxalone, and its picrate (BRAZIER and McCOMBIE), T., 2354; P., 287.

$C_{27}H_{20}O_4N_2$ Tribenzoyldiaminophenol (MELDOLA and HOLLELY), T., 931.

$C_{27}H_{20}N_2S$ 1:3:4:5-Tetraphenyl-2:3-dihydro-2-glyoxalthione (BRAZIER and McCOMBIE), T., 2357; P., 288.

$C_{27}H_{21}O_4N$ Dibenzoyl derivative of 2:6-dihydroxy-3-benzyl-4-methylpyridine (BLAND and THORPE), T., 1743.

$C_{27}H_{22}O_2N$ Desyl-*s*-diphenylcarbamide (BRAZIER and McCOMBIE), T., 2354; P., 287.

$C_{27}H_{27}O_4N$ *N*-Benzyl*iso*tetrahydroberberine, and its salts (McDavid, Perkin and Robinson), T., 1224.

$C_{27}H_{30}ON_2$ Benzoyl derivative of Schiff's base of *m*-4-xylidine (Edwards, Garrod and Jones), T., 1387.

27 IV

$C_{27}H_{20}O_2NCl$ α-Keto-β-benzoyl-*m*-chloroanilino-αβ-diphenylethane (Bailey and McCombie) T., 2276.

$C_{27}H_{28}O_4NCl$ Tetrahydroberberine benzyl chlorides (McDavid, Perkin and Robinson), T., 1223.

C_{28} Group.

$C_{28}H_{28}Sn$ Tetrabenzylstannane (Smith and Kipping), T., 2559; P., 314.

$C_{28}H_{48}O_5$ Citrullol, formula of (Tutin and Clewer), P., 318.

$C_{28}H_{54}O_2$ Menthyl stearate (Hilditch), T., 201.

$C_{28}H_{58}O$ Cluytyl alcohol (Tutin and Clewer), T., 2226; P., 265.

28 III

$C_{28}H_{20}O_6N_2$ Diphenyl-4:4′-diphthalamic acid, and its sodium salt (Cain and Brady), T., 2307.

$C_{28}H_{22}ON_2$ 3:4:5-Triphenyl-1-*o*-, -*m*-, and -*p*-tolyl-2:3-dihydro-2-glyoxalones, and their picrates (Brazier and McCombie), T., 2355.

$C_{28}H_{22}N_2S$ 3:4:5-Triphenyl-1-*o*-, -*m*-, and -*p*-tolyl-2:3-dihydro-2-glyoxalthiones (Brazier and McCombie), T., 2357.

$C_{28}H_{30}O_3Si_2$ Anhydrobisdibenzylsilicanediol (+ H_2O), (Robison and Kipping), T., 2151; P., 245.

$C_{28}H_{42}O_2N_2$ α- and β-2:5-Dimethylpiperazino-*d*-methylenecamphor (Pope and Read), T., 2334.

28 IV

$C_{28}H_{19}ON_3Cl$ α-Naphthylaminochlorophenylphenazonium hydroxide, nitrate of (Balls, Hewitt and Newman), T., 1850.

$C_{28}H_{22}O_4N_4S_2$ *m*-Nitrobenzylidenedithio-*o*-toluidine (Hodgson), T., 1701; P., 223.

$C_{28}H_{22}O_4N_4S_3$ *m*-Nitrobenzylidenetrithio-*o*-toluidine (Hodgson), T., 1698; P., 222.

$C_{28}H_{24}O_2N_2S_3$ Benzoyl derivative of trithio-*o*-toluidine (Hodgson), T., 1698; P., 222.

C_{29} Group.

$C_{29}H_{22}O_7$ Dibenzoylsantalin (Cain and Simonsen), T., 1067; P., 140.

$C_{29}H_{22}O_8$ Triacetylararobinol (Tutin and Clewer), T., 295.

$C_{29}H_{42}O_2$ Substance, from the fat of *Beta vulgaris* (Neville), T., 1103; P., 130.

$C_{29}H_{46}O_2$ Cluytiasteryl acetate (Tutin and Clewer), T., 2233.

$C_{29}H_{48}O$ Taraxasterol (Power and Browning), T., 2423; P., 285.

$C_{29}H_{50}O_5$ Cluytianol (Tutin and Clewer), T., 2230; P., 265, 318.

Ipuranol, formula of (Tutin and Clewer), P., 318.

29 III

$C_{29}H_{42}N_2I_2$ Ethylenedipiperidine dibenzyl iodide (Dunlop), T., 2003.

29 IV

$C_{29}H_{24}O_{10}N_2S$ Phenetoleazosulphophenyldihydroxydiphenylmethanedicarboxylic acid (Green and Sen), T., 1117.

$C_{29}H_{32}O_4NCl$ Anhydro-*N*-benzyl*iso*tetrahydroberberine methyl hydroxide methochloride (McDavid, Perkin and Robinson), T., 1225.

C_{30} Group.

$C_{30}H_{22}O_4$ *s*-Tetrabenzoylethane (ABELL), T., 997 ; P., 145.
$C_{30}H_{30}O_{10}$ Tetramethyl*iso*purpurogallone (PERKIN), T., 807.
$C_{30}H_{32}O_{10}$ *iso*Purpurogallone diethyl ester (PERKIN), T., 807 ; P., 94.
$C_{30}H_{32}N_2$ Di-*p*-toluidinodi-*p*-methyldibenzyl (LAW), T., 162.
$C_{30}H_{60}O_2$ Cluytyl acetate (TUTIN and CLEWER), T., 2226.

30 III

$C_{30}H_{24}O_6N_2$ Tribenzoyl-2-aminotyrosine (FUNK), T., 1007.
3:3′-Dimethyldiphenyl-4:4′-diphthalamic acid, and its sodium salt (CAIN and BRADY), T., 2307.
$C_{30}H_{24}O_8N_2$ 3:3′-Dimethoxydiphenyl-4:4′-diphthalamic acid, and its sodium salt (CAIN and BRADY), T., 2307.
$C_{30}H_{27}O_6V$ Vanadium terbenzoylacetonate (MORGAN and MOSS), P., 325.
$C_{30}N_{30}ON_4$ 2.5-Bis-dimethylaminoanilo-3:4-diphenyl*cyclo*pentenone (RUHEMANN and NAUNTON), T., 45.

C_{31} Group.

$C_{31}H_{50}O_2$ Acetyltaraxasterol (POWER and BROWNING), T., 2424.
$C_{31}H_{50}O_4$ Atropuryl acetate (ROGERSON), T., 1049 ; P., 138.
$C_{31}H_{52}O_2$ Euonysterol (ROGERSON), T., 1048 ; P., 138.
$C_{31}H_{58}O_2$ Substance, from the fat of *Beta vulgaris* (NEVILLE), T., 1102 ; P., 130.

31 III

$C_{31}H_{22}ON_2$ 3:4:5-Triphenyl-1-β-naphthyl-2:3-dihydro-2-glyoxalone, and its picrate (BRAZIER and MCCOMBIE), T., 2356.
$C_{31}H_{22}N_2S$ 3:4:5-Triphenyl-1-β-naphthyl-2:3-dihydro-2-glyoxalthione (BRAZIER and MCCOMBIE), T., 2358.
$C_{31}H_{49}O_2Br$ Bromoacetyltaraxasterol (POWER and BROWNING), T., 2424.

31 IV

$C_{31}H_{28}O_{10}N_2S$ Phenetoleazosulphophenyldihydroxyditolylcarbinoldicarboxylic acid (GREEN and SEN), T., 1116.
$C_{31}H_{28}O_{10}N_2S$ Phenetoleazosulphophenyldihydroxyditolylmethanedicarboxylic acid (GREEN and SEN), T., 1115.

C_{33} Group.

$C_{33}H_{54}O_3$ Euonysteryl acetate (ROGERSON), T., 1048.

33 III

$C_{33}H_{32}O_2N_4$ Benzylidenediharmaline (PERKIN and ROBINSON), T., 1786.

33 IV

$C_{33}H_{24}ON_2Cl_2$ Benzoyldi-*m*-chloroanilinostilbene, and its salts (BAILEY and MCCOMBIE), T., 2274.

C_{34} Group.

$C_{34}H_{24}O_8$ 2:4:Dihydroxyphenyl 2-hydroxynaphthyl ketone (+ H_2O), (DUTTA and WATSON), T., 1242 ; P., 107.
$C_{34}H_{50}O_2$ Cholesteryl benzoate, action of bromine on (DORÉE and STOTESBURY), P., 196.

34 III

$C_{34}H_{23}ON_4$ Phenylaminonaphthylaminophenylphenazonium hydroxide, nitrate of (BALLS, HEWITT and NEWMAN), T., 1850.

$C_{34}H_{47}O_{11}N$ Aconitine, constitution of (BRADY), P., 289; oxidation of, and its permanganate (CARR), T., 2241; P., 253.

34 IV

$C_{34}H_{24}ON_4Cl$ Phenylamino-α-naphthylaminochlorophenylphenazonium hydroxide, nitrate of (BALLS, HEWITT and NEWMAN), T., 1850.

$C_{34}H_{28}O_2N_4S_2$ Dithio-*o*-toluenebisazo-β-naphthol (HODGSON), T., 1701; P., 223.

$C_{34}H_{28}O_2N_4S_3$ Trithio-*o*-toluenebisazo-β-naphthol (HODGSON), T., 1699; P., 222.

C_{35} Group.

$C_{35}H_{30}ON_2$ Benzoyldi-*m*-toluidinostilbene, and its salts (BAILEY and MCCOMBIE), T., 2277.

C_{36} Group.

$C_{36}H_{52}O_2$ Benzoyltaraxasterol (POWER and BROWNING), T., 2424.

36 III

$C_{36}H_{30}O_3Si_3$ Trisanhydrotrisdiphenylsilicanediol (KIPPING), T., 2136; P., 244.

$C_{36}H_{32}O_4Si_3$ Dianhydrotrisdiphenylsilicanediol (KIPPING), T., 2134; P., 244.

$C_{36}H_{63}O_6N$ Menthyl nitrilotriacetate, preparation of (FRANKLAND and O'SULLIVAN), T., 287; P., 19.

C_{37} Group.

$C_{37}H_{58}O_9$ Tetra-acetylcluytianol (TUTIN and CLEWER), T., 2230; P., 265; (POWER and BROWNING), T., 2427.

C_{40} Group.

$C_{40}H_{70}O_2$ Homo-euonysterol (ROGERSON), T., 1048; P., 138.

$C_{40}H_{76}O_4$ Myricyl hydrogen camphorate (HILDITCH), T., 201.

40 III

$C_{40}H_{76}O_4S$ Myricyl camphor-β-sulphonate (HILDITCH), T., 202.

40 IV

$C_{40}H_{28}O_2N_2Cl_2$ *s*-Dibenzoyldi-*m*-chloroanilinostilbene (BAILEY and MCCOMBIE), T., 2273; P., 266.

C_{41} Group.

$C_{41}H_{40}N_6$ 1:2:3-Tris-dimethylaminoanilo-4:5-diphenyl*cyclo*pentene (RUHEMANN and NAUNTON), T., 45.

C_{42} Group.

$C_{42}H_{34}O_{11}$ Resorcinol-hydroxycinnamein ($+4H_2O$), (DUTTA and WATSON), T., 1242; P., 107.

$C_{42}H_{72}O_3$ Homo-euonysteryl acetate (ROGERSON), T., 1048.

42 III

$C_{42}H_{30}O_7N_2$ 4-Fluoresceinamino-3:3′-dimethyldiphenyl-4′-phthalamic acid (CAIN and BRADY), T., 2308.

$C_{42}H_{34}O_2N_2$ *s*-Dibenzoyldi-*m*-toluidinostilbene (BAILEY and MCCOMBIE), T., 2277.

$C_{42}H_{42}O_3Si_3$ Trianhydrotrisdibenzylsilicanediol (ROBISON and KIPPING), T., 2154; P., 245.

42 IV

$C_{42}H_{26}O_7N_2Br_4$ 4-Eosinamino-3:3′-dimethyldiphenyl-4′-phthalamic acid (CAIN and BRADY), T., 2309.

C_{48} Group.

$C_{48}H_{42}N_8$ Leucoemeraldine (GREEN and WOODHEAD), T., 1122; P., 136.

48 III

$C_{48}H_{40}O_4Si_4$ Tetra-anhydrotetrakisdiphenylsilicanediol (KIPPING), T., 2138; P., 244.

C_{49} Group.

$C_{49}H_{60}O_8$ Benzoylcitrullol (TUTIN and CLEWER), P., 318.

$C_{49}H_{98}O_2$ Cluytyl cluytinate (TUTIN and CLEWER), T., 2225; P., 265.

C_{52} Group.

$C_{52}H_{32}O_8N_2$ Difluoresceinbenzidide (CAIN and BRADY), T., 2308.

52 IV

$C_{52}H_{24}O_8N_2Br_8$ Dieosinbenzidide (CAIN and BRADY), T., 2308.

C_{54} Group.

$C_{54}H_{36}O_8N_2$ Difluoresceintolidide (CAIN and BRADY), T., 2309.

$C_{54}H_{36}O_{10}N_2$ Difluoresceindianisidide (CAIN and BRADY), T., 2309.

$C_{54}H_{37}O_8N_3$ Emodintridiphenylurethane (TUTIN and CLEWER), T., 292.

54 IV

$C_{54}H_{28}O_{10}N_2Br_8$ Dieosindianisidide (CAIN and BRADY), T., 2309.

C_{57} Group.

$C_{57}H_{66}O_9$ Tetrabenzoylcluytianol (TUTIN and CLEWER), T., 2230; P., 265; (POWER and BROWNING), T., 2427.

C_{84} Group.

$C_{84}H_{56}Br_2$ Substance, from 2:2′-dibromodiphenyl and sodium (DOBBIE, FOX and GAUGE), P., 327.

$C_{84}H_{62}O_{30}$ Pyrogallol-hydroxycinnamein (+ H_2O) (DUTTA and WATSON), T., 1241; P., 106.